OWNER’S MANUAL

Safety, Assembly, Operating, and Maintenance Instructions
Model MT (23.0 HP)
Model MTL (25.0 HP)
Model MTEFI (26.0 HP)
Model MTLEFI (31.0 HP)

Please Read and Save These Instructions
For Safety, Read All Safety and Operation Instructions Prior to Operating Machine

Effective Date: 08-09-09
P/N 8000-16
Foreword

Thank you. . . for purchasing a Walker mower. Every effort has been made to provide you with the most reliable mower on the market, and we are sure you will be among our many satisfied customers. If for any reason this product does not perform to your expectations, please contact us at (970) 221-5614. Every customer is important to us. Your satisfaction is our goal.

Please. . . read this manual thoroughly! This manual is to be used in conjunction with the engine manufacturer's manual for the specific engine on the mower model you have purchased. Before you operate your new mower, please read this entire manual. Some of the information is crucial for proper operation and maintenance of this mower - it will help protect your investment and ensure that the mower performs to your satisfaction. Some of the information is important to your safety and must be read and understood to help prevent possible injury to the operator or others. If anything in this manual is confusing or hard to understand, please contact your local authorized dealer or call our service department, at (970) 221-5614, for clarification before operating or servicing this mower.

This manual covers Model MT with the Kohler Command Pro CH23 (23.0 HP) gasoline engine, or optional Kohler Command Pro CH26 (26.0 HP) Electronic Fuel Injection (EFI) gasoline engine, or optional Kohler Aegis LH685 (25.0 HP) gasoline engine (liquid cooled), or optional Kohler Aegis LH775 (31.0 HP) Electronic Fuel Injection (EFI) gasoline engine (liquid cooled).

All shields and guards must be in place for the proper and safe operation of this machine. Where they are shown removed in this manual, it is for illustration purposes only. Do not operate this machine unless all shields and guards are in place.

Specifications given are based on the latest information available at the time this manual was produced.

Walker Mfg. Co. is continually striving to improve the design and performance of its products. We reserve the right to make changes in specifications and design without thereby incurring any obligation relative to previously manufactured products.

Sincerely,
WALKER MANUFACTURING COMPANY

Bob Walker, President
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General Information

HIGHLIGHTED INFORMATION

Walker Manufacturing recommends that any service requiring special training or tools be performed by an authorized Walker Mower Dealer. There are several general practices to be aware of in the area of safety. Most accidents associated with the operation or maintenance of a Walker Mower are caused by disregarding basic safety precautions or specific warnings. Such accidents, in most cases, can be prevented by being aware of the dangers present.

Information of special importance has been highlighted in bold type in this manual. Refer to Safety Instructions for the meanings of DANGER, WARNING, CAUTION, IMPORTANT, and NOTE.

GLOSSARY

There are many terms that are either unique to this equipment or that are used as acronyms. The following terms and their definitions will help while using this manual:

- **DECK** is the mowing attachment mounted on the front of the tractor which includes the carrier frame, deck housing, blade drive gearboxes, and cutter blades.

- **ELECTRONIC CONTROL UNIT (ECU)** controls engine functions such as spark timing, fuel/air ratio, etc.

- **FORWARD SPEED CONTROL (FSC)** controls the maximum forward speed of the tractor; functioning as a cruise control.

- **GRASS HANDLING SYSTEM (GHS)** collects mowed material and deposits it in the catcher.

- **GRASS-PAK SWITCH** is mounted on the grass delivery spout (in the catcher) and activates the “full” signal horn when the grass catcher is full.

- **GROUND DRIVE** refers to the dual hydrostatic transmissions which drive the main wheels.

- **HYDROSTATIC TRANSMISSION** transmits and controls power from the ground drive belt to the main drive wheel.

- **LEFT HAND (LH)** refers to the left-hand side of the tractor when the operator is seated facing forward in the tractor seat.

- **POWER TAKE-OFF (PTO)** transmits engine power to run the cutter blades and GHS blower.

- **POWERFIL** spreads the mowed material throughout the interior of the grass catcher by an oscillating delivery spout.

- **RIGHT HAND (RH)** refers to the right-hand side of the tractor when the operator is seated facing forward in the tractor seat.

- **SIDE DISCHARGE (SD)** mows but does not collect the mowed material.

- **STEERING LEVERS** steer the tractor by controlling the dual hydrostatic transmissions.

- **TRACTOR** is the prime mover, including the engine, drive train, operator seat, and controls to operate the mower.

- **TRANSMISSION LOCKOUT** releases the hydrostatic transmissions to permit freewheeling the tractor.

IDENTIFYING NUMBER LOCATIONS

The tractor serial number plate is affixed to the tractor body just below the left rear corner of the seat. The mower deck serial number plate is affixed alongside the angle iron framing on the LH side of the LH mower blade drive. Model and serial numbers are helpful when obtaining replacement parts and maintenance assistance. For ready reference, please record these numbers in the space provided.

| Tractor Model No. | ______________________ |
| Tractor Serial No. | ______________________ |
| Deck Serial No. | ______________________ |
| Engine Model No. | ______________________ |
| Engine Serial No. | ______________________ |
| Date of Purchase | ______________________ |

Fill In By Purchaser
SERVICING OF ENGINE AND DRIVETRAIN COMPONENTS

The detailed servicing and repair of the engine, hydrostatic transmission, and gearboxes are not covered in this manual. Only routine maintenance and general service instructions are provided. For the service of these components during the limited warranty period, it is important to find a local, authorized servicing agent of the component manufacturer. Any unauthorized work done on these components during the warranty period may void the warranty. If you have any difficulty finding an authorized outlet or obtaining warranty service, please contact our Service Department for assistance:

Walker Manufacturing Company
5925 E. Harmony Road
Fort Collins, CO 80528
1-970-221-5614

Service manuals are available for each of these components from their respective manufacturers as follows:

Kohler Engines
Kohler Company
Kohler, WI 53044
800-544-2444
www.kohlerengines.com

Hydrostatic Transmissions
Eaton Corporation
15151 Highway 5
Eden Prairie, MN 55344

Gearboxes (Deck)
Tecumseh Power Co.
1555 S. Jackson Street
Salem, IN 47167
812-883-3575
### Specifications

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#### ENGINE
- **Manufacturer/Model**
  - CH23, 2 Cyl., Gasoline (Air-Cooled)
  - LH685
  - LH775

#### Displacement
- CH23/CH680: 41.1 cu. in. (674 cc)
- CH26/CH735: 44.0 cu. in. (721 cc)
- LH685: 41.1 cu. in. (674 cc)
- LH775: 45.6 cu. in. (748 cc)

#### HP (@ 3600 RPM)
- CH23/CH680: 23.0
- CH26/CH735: 26.0
- LH685: 25.0
- LH775: 31.0

#### Max. RPM (No Load)
- CH23/CH680: 3750
- CH26/CH735: 3750
- LH685: 3600
- LH775: 3600

#### Max. Torque [ft-lb (N·m) @ RPM]
- CH23/CH680: 37.9 (51.4) @ 2400
- CH26/CH735: 41.6 (56.4) @ 2700
- LH685: 35.9 (48.7) @ 2200
- LH775: 45.4 (61.6) @ 2400

#### Idle RPM
- CH23/CH680: 1200 ± 75
- CH26/CH735: 1200 ± 75
- LH685: 1200 ± 75
- LH775: 1200 ± 75

#### Spark Plug Type
- CH23/CH680: Champion® RC12YC
- CH26/CH735: Champion® RC14YC

#### Spark Plug Gap
- .030 in. (.76 mm)

#### Crankcase Capacity
- 1.7 qts (1.6 liters)

#### Crankcase Lubricant
- API SG, SH, SJ or higher
  - Viscosity above 0° F (-18° C), or 5W-20 or 5W-30 Viscosity below 32° F (0° C)

#### Oil Filter
- 12 050 01 S

#### Cooling System
- CH23/CH680: Air-Cooled
- CH26/CH735: Air-Cooled
- LH685: Liquid-Cooled
- LH775: Liquid-Cooled

#### Coolant
- 50/50 Pre-Mix Anti-freeze/water

#### Fuel Tank Capacity
- 5 Gallons (19.0 liters)

#### Fuel
- Regular Grade Unleaded Gasoline (87 Octane)
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<th>AIR COOLED</th>
<th>LIQUID COOLED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery</td>
<td>12 Volt, 35AH, 295 CCA</td>
<td>12 Volt, 41AH, 340 CCA (Interstate U1-SP40)</td>
</tr>
<tr>
<td>Charging System</td>
<td>Flywheel Alternator</td>
<td>Flywheel Alternator</td>
</tr>
<tr>
<td>Charging Output</td>
<td>CH23/CH680</td>
<td>25 Amp DC (Regulated)</td>
</tr>
<tr>
<td>CH26/CH735</td>
<td>15 Amp DC (Regulated)</td>
<td>25 Amp DC (Regulated)</td>
</tr>
<tr>
<td>System Polarity</td>
<td>Negative Ground</td>
<td>Negative Ground</td>
</tr>
<tr>
<td>Ignition</td>
<td>Electronic Capacitive Discharge</td>
<td>Electronic Capacitive Discharge</td>
</tr>
<tr>
<td>Starter</td>
<td>12 Volt Electric Ring-Gear Type, Solenoid Shift</td>
<td>12 Volt Electric Ring-Gear Type, Solenoid Shift</td>
</tr>
<tr>
<td>Interlock Switch</td>
<td>Ignition Lockout by Seat Switch, Transmission Neutral and Blade Clutch</td>
<td>Ignition Lockout by Seat Switch, Transmission Neutral and Blade Clutch</td>
</tr>
<tr>
<td>Circuit Breaker</td>
<td>Auto Reset (30A)</td>
<td>Auto Reset (30A)</td>
</tr>
<tr>
<td>LH685</td>
<td></td>
<td>Auto Reset (40A)</td>
</tr>
<tr>
<td>LH775</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### TRANSMISSION

<table>
<thead>
<tr>
<th>Component</th>
<th>AIR COOLED</th>
<th>LIQUID COOLED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer/Model</td>
<td>Dual Hydrostatic, Eaton Model 7, Each Wheel Independently Driven</td>
<td>Dual Hydrostatic, Eaton Model 7, Each Wheel Independently Driven</td>
</tr>
<tr>
<td>Steering</td>
<td>Hand Lever Control / Individual Wheel</td>
<td>Hand Lever Control / Individual Wheel</td>
</tr>
<tr>
<td>Forward Speed Control</td>
<td>Precision Friction Lock Lever, Cruise Control, with Neutral-Park Position</td>
<td>Precision Friction Lock Lever, Cruise Control, with Neutral-Park Position</td>
</tr>
<tr>
<td>Service Brake</td>
<td>Dynamic Braking through Hydrostatic Transmission</td>
<td>Dynamic Braking through Hydrostatic Transmission</td>
</tr>
<tr>
<td>Parking Brake</td>
<td>Mechanical Pin Lock in Transmission Gear</td>
<td>Mechanical Pin Lock in Transmission Gear</td>
</tr>
<tr>
<td>Final Drive</td>
<td>Gear Drive Axle</td>
<td>Gear Drive Axle</td>
</tr>
</tbody>
</table>

### Transmission Fluid

<table>
<thead>
<tr>
<th>Component</th>
<th>AIR COOLED</th>
<th>LIQUID COOLED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Factory Service</td>
<td>Mobil 1 Synthetic Motor Oil (15W-50)</td>
<td>Mobil 1 Synthetic Motor Oil (15W-50)</td>
</tr>
<tr>
<td>Alternate Transmission Fluid</td>
<td>SAE 30W Straight Viscosity Motor Oil</td>
<td>SAE 30W Straight Viscosity Motor Oil</td>
</tr>
<tr>
<td>Transmission Fluid Capacity</td>
<td>1 qt (1 liter)</td>
<td>1 qt (1 liter)</td>
</tr>
<tr>
<td>Transmission Cooling</td>
<td>Cooling Fan Mounted on Drive Pulley</td>
<td>Cooling Fan Mounted on Drive Pulley</td>
</tr>
</tbody>
</table>
## Specifications

<table>
<thead>
<tr>
<th>MODEL</th>
<th>AIR COOLED MT (23.0 HP)</th>
<th>LIQUID COOLED MTL (25.0 HP)</th>
<th>LIQUID COOLED MTLEFI (31.0 HP)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TRANSMISSION (continued)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Ground Travel Speed</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forward m.p.h. (km/h)</td>
<td>0-5 (0-8) Infinitely Variable*</td>
<td>0-7 (0-11) Infinitely Variable</td>
<td>0-7 (0-11) Infinitely Variable</td>
</tr>
<tr>
<td>Reverse m.p.h. (km/h)</td>
<td>0-5 (0-8) Infinitely Variable</td>
<td>0-7 (0-11) Infinitely Variable</td>
<td>0-7 (0-11) Infinitely Variable</td>
</tr>
<tr>
<td>* 6.5 m.p.h. with Optional Speed-Up Kit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>BLADE DRIVE</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PTO Shaft</td>
<td>Quick Disconnect Spline Shaft with Two High-Speed U-Joints</td>
<td>Quick Disconnect Spline Shaft with Two High-Speed U-Joints</td>
<td></td>
</tr>
<tr>
<td>Blade Spindle</td>
<td>Each Blade (2) Mounts Direct on Peerless Right Angle Gearbox with Tee Gearbox in Center Connected to PTO Shaft (Complete Geared Drive, Peerless Model 1000 Gearboxes)</td>
<td>Each Blade (2) Mounts Direct on Peerless Right Angle Gearbox with Tee Gearbox in Center Connected to PTO Shaft (Complete Geared Drive, Peerless Model 1000 Gearboxes)</td>
<td></td>
</tr>
<tr>
<td>Blade Drive Clutch and Brake</td>
<td>Manual Belt Tightener Clutch and Band Brake [Stops Blades within Five (5) Seconds of Disengagement]</td>
<td>Manual Belt Tightener Clutch and Band Brake [Stops Blades within Five (5) Seconds of Disengagement]</td>
<td></td>
</tr>
<tr>
<td>Max. Blade Speed [22 in. (56 cm) Blade]</td>
<td>2900 RPM [16700 FPM (5090 m/min)]</td>
<td>2900 RPM [16700 FPM (5090 m/min)]</td>
<td></td>
</tr>
<tr>
<td>@ 3600 RPM Engine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TIRE SIZE</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deck Caster Wheel</td>
<td>8 x 3.00-4 Pneumatic (4-Ply)</td>
<td>8 x 3.00-4 Pneumatic (4-Ply)</td>
<td>11 x 4.00-5 Pneumatic</td>
</tr>
<tr>
<td></td>
<td>11 x 4.00-5 Pneumatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deck Caster Wheel (Optional)</td>
<td>8 x 3.00-4 Foamed Rubber</td>
<td>8 x 3.00-4 Foamed Rubber</td>
<td></td>
</tr>
<tr>
<td>Drive</td>
<td>18 x 9.50-8 (4-Ply)</td>
<td>18 x 9.50-8 (4-Ply)</td>
<td></td>
</tr>
<tr>
<td>Drive (Optional Wide Tire)</td>
<td>18 x 10.50-10 (4-Ply)</td>
<td>18 x 10.50-10 (4-Ply)</td>
<td></td>
</tr>
<tr>
<td>Rear (Dual)</td>
<td>13 x 5.00-6 (4-Ply)</td>
<td>13 x 5.00-6 (4-Ply)</td>
<td></td>
</tr>
<tr>
<td><strong>TIRE PRESSURE</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deck Caster Wheel</td>
<td>20 PSI (137 kPa)</td>
<td>20 PSI (137 kPa)</td>
<td>20 PSI (137 kPa)</td>
</tr>
<tr>
<td>Drive</td>
<td>15 PSI (103 kPa)</td>
<td>15 PSI (103 kPa)</td>
<td></td>
</tr>
<tr>
<td>Rear</td>
<td>20 PSI (137 kPa)</td>
<td>20 PSI (137 kPa)</td>
<td></td>
</tr>
<tr>
<td><strong>DIMENSIONS (Tractor and Mower)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>91 in. (231 cm)</td>
<td>91 in. (231 cm)</td>
<td></td>
</tr>
<tr>
<td>Width</td>
<td>49 in. (124 cm)</td>
<td>49 in. (124 cm)</td>
<td></td>
</tr>
<tr>
<td>Height</td>
<td>49 in. (124 cm)</td>
<td>49 in. (124 cm)</td>
<td></td>
</tr>
<tr>
<td>Wheel Base (Tractor)</td>
<td>42-1/4 in. (107 cm)</td>
<td>42-1/4 in. (107 cm)</td>
<td></td>
</tr>
<tr>
<td>Tread Width (Tractor)</td>
<td>29-3/4 in. (76 cm)</td>
<td>29-3/4 in. (76 cm)</td>
<td></td>
</tr>
</tbody>
</table>
## Specifications

<table>
<thead>
<tr>
<th>MODEL</th>
<th>AIR COOLED</th>
<th>LIQUID COOLED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MT (23.0 HP)</td>
<td>MTLEFI (31.0 HP)</td>
</tr>
<tr>
<td></td>
<td>MTEFI (26.0 HP)</td>
<td>MTL (25.0 HP)</td>
</tr>
</tbody>
</table>

### MOWER DECK

<table>
<thead>
<tr>
<th>Feature</th>
<th>SD/GHS</th>
<th>MTLEFI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width of Cut</td>
<td>42 or 48 in. (107 or 122 cm)</td>
<td>42 or 48 in. (107 or 122 cm)</td>
</tr>
<tr>
<td>Cutting Height</td>
<td>1 to 4 in. (3 to 10 cm)</td>
<td>1 to 4 in. (3 to 10 cm)</td>
</tr>
<tr>
<td>Height Adjustment</td>
<td>7 Positions - 1/2 in. (1 cm) Increment Hitch Pins Installed in Multi-Position Deck Support</td>
<td>7 Positions - 1/2 in. (1 cm) Increment Hitch Pins Installed in Multi-Position Deck Support</td>
</tr>
</tbody>
</table>

### Blade Size (Typical)

<table>
<thead>
<tr>
<th>Size</th>
<th>SD</th>
<th>GHS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (Typical)</td>
<td>42 in. (107 cm)</td>
<td>48 in. (122 cm)</td>
</tr>
<tr>
<td>Blade Size</td>
<td>22 in. (56 cm)</td>
<td>25 in. (64 cm)</td>
</tr>
<tr>
<td>Center Overlap</td>
<td>2 in. (5 cm) Center Overlap</td>
<td>2 in. (5 cm) Center Overlap</td>
</tr>
<tr>
<td>Rotation</td>
<td>(Two Blades, CW Rotation)</td>
<td>(Two Blades, Counter Rotate)</td>
</tr>
</tbody>
</table>

### Curved Weight (Approximate)

<table>
<thead>
<tr>
<th>Model</th>
<th>SD Tractor Only</th>
<th>GHS Tractor Only</th>
<th>Tractor and Mower**</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>664 lb (301 kg) MT</td>
<td>786 lb (357 kg) MT</td>
<td>984 lb (446 kg) MT</td>
</tr>
<tr>
<td></td>
<td>672 lb (305 kg) MTEFI</td>
<td>796 lb (361 kg) MTEFI</td>
<td>994 lb (451 kg) MTEFI</td>
</tr>
<tr>
<td></td>
<td>706 lb (320 kg) MTL</td>
<td>829 lb (376 kg) MTL</td>
<td>1027 lb (466 kg) MTL</td>
</tr>
<tr>
<td></td>
<td>718 lb (326 kg) MTLEFI</td>
<td>841 lb (382 kg) MTLEFI</td>
<td>1039 lb (471 kg) MTLEFI</td>
</tr>
</tbody>
</table>

### Drive Belts

<table>
<thead>
<tr>
<th>Feature</th>
<th>Engine PTO</th>
<th>Jackshaft Drive</th>
<th>Ground Drive, Micro-V</th>
<th>Blower (GHS Model)</th>
<th>GHS SYSTEM (Optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine PTO</td>
<td>Walker P/N 8230</td>
<td>Gates 3VX375 (or Walker P/N 6250)</td>
<td>Walker P/N 7248</td>
<td>Gates 3VX280 (or Walker P/N 7234-2)</td>
<td>Blower 4-1/2 x 10-1/2 x 1/2 in. (11 x 27 x 1 cm) Three-Blade Paddle Wheel (Driven by Mower Engine)</td>
</tr>
<tr>
<td>Jackshaft Drive</td>
<td>Gates 3VX375 (or Walker P/N 6250-1)</td>
<td>Walker P/N 7248</td>
<td>Gates 3VX280 (or Walker P/N 7234-2)</td>
<td>Band Brake [Works in Combination with PTO Clutch, Stops Blower within Five (5) Seconds of PTO Disengagement]</td>
<td>Band Brake [Works in Combination with PTO Clutch, Stops Blower within Five (5) Seconds of PTO Disengagement]</td>
</tr>
<tr>
<td>Ground Drive, Micro-V</td>
<td>Walker P/N 7248</td>
<td>Gates 3VX280 (or Walker P/N 7234-2)</td>
<td>Band Brake [Works in Combination with PTO Clutch, Stops Blower within Five (5) Seconds of PTO Disengagement]</td>
<td>Max. Blower Speed</td>
<td>4000 RPM</td>
</tr>
<tr>
<td>Blower (GHS Model)</td>
<td>Gates 3VX280 (or Walker P/N 7234-2)</td>
<td>Band Brake [Works in Combination with PTO Clutch, Stops Blower within Five (5) Seconds of PTO Disengagement]</td>
<td>Max. Blower Speed</td>
<td>4000 RPM</td>
<td></td>
</tr>
<tr>
<td>Hi-Dump Option</td>
<td>200 lb (91 kg)</td>
<td>Max. Lift Capacity</td>
<td>200 lb (91 kg)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Specifications

<table>
<thead>
<tr>
<th>MODEL</th>
<th>AIR COOLED</th>
<th>LIQUID COOLED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MT (23.0 HP)</td>
<td>MTL (25.0 HP)</td>
</tr>
<tr>
<td></td>
<td>MTEFI (26.0 HP)</td>
<td>MTLEFI (31.0 HP)</td>
</tr>
</tbody>
</table>

**GHS SYSTEM (Optional) (continued)**

<table>
<thead>
<tr>
<th></th>
<th>AIR COOLED</th>
<th>LIQUID COOLED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grass Catcher Capacity</td>
<td>93 Gallons (352 liters)/10.0 Bushels</td>
<td>93 Gallons (352 liters)/10.0 Bushels</td>
</tr>
<tr>
<td>Optional Grass Catcher Capacity</td>
<td>65 Gallons (247 liters)/7.0 Bushels</td>
<td>65 Gallons (247 liters)/7.0 Bushels</td>
</tr>
<tr>
<td>Full Signal (Grass-Pak® Switch)</td>
<td>Oscillating Vane Switch Mounted on Grass Delivery Spout Triggers Horn Signal</td>
<td>Oscillating Vane Switch Mounted on Grass Delivery Spout Triggers Horn Signal</td>
</tr>
<tr>
<td>Powerfil® Oscillating Delivery Spout Driven by 12 Volt Electric Gearmotor Spreads Material throughout Interior of Catcher @ 25 Cycles/Minute</td>
<td>Oscillating Delivery Spout Driven by 12 Volt Electric Gearmotor Spreads Material throughout Interior of Catcher @ 25 Cycles/Minute</td>
<td></td>
</tr>
</tbody>
</table>

**SEAT**

<table>
<thead>
<tr>
<th></th>
<th>AIR COOLED</th>
<th>LIQUID COOLED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seat</td>
<td>Contour-Molded, with Nylon Backed Vinyl Cover and Integral Foam Cushion</td>
<td>Full Spring Suspension with Dampering and Adjustments for Back Angle, Lumbar Support, and Operator Weight. Standard with Armrests</td>
</tr>
</tbody>
</table>

**FRAME/BODY CONSTRUCTION**

<table>
<thead>
<tr>
<th></th>
<th>AIR COOLED</th>
<th>LIQUID COOLED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frame</td>
<td>All Welded Unitized Steel Chassis</td>
<td>All Welded Unitized Steel Chassis</td>
</tr>
<tr>
<td>Body</td>
<td>14 Gauge Steel</td>
<td>14 Gauge Steel</td>
</tr>
<tr>
<td>Deck</td>
<td>11 Gauge Steel</td>
<td>11 Gauge Steel</td>
</tr>
<tr>
<td>GHS Catcher and Chutes</td>
<td>Molded Cross-Linked Polyethylene (UV Stabilized)</td>
<td>Molded Cross-Linked Polyethylene (UV Stabilized)</td>
</tr>
</tbody>
</table>

**Dimensions and weight shown are for 48 in. (122 cm) GHS Model (typical).**

- Dimensions for Tractor and Mower with 42 in. (107 cm) deck are:
  - Length = 88 in. (224 cm)
  - Width = 43 in. (110 cm)

For SD Models, subtract 7 in. (18 cm) from the height.

- Deck weight for 48 in. (122 cm) Tilt-Up deck = 205 lb (93 kg). Deck sizes range from 42 to 74 in. (107 to 188 cm), with corresponding deck weights ranging from 170 to 400 lb (77 to 181 kg).

- Optional (7.0 Bushel) Grass Catcher subtracts approx. 5 lb (2 kg) and 5 in. (13 cm) in Height

**NOTE:** The manufacturer reserves the right to make changes in specifications shown herein at any time without notice or obligation.
Component Identification

NOTE: Control Identification shown in Operating Instructions section.

Grass Handling System
10.0 Bushel Catcher Standard
7.0 Bushel Catcher (Optional)
(Not Shown)

Turbine Precleaner

Deck Support Pins
and Height Adjustment

Tilt-Up Hook

Deck Caster Wheels

Footrests

Tilt-Up Deck Handle

Deck Lift Handle
(Cutting Height Adjustment)

Fuel Tank and Cap

Counterweight Spring and Protective Cover

Transmission Control Rod Adjustment Nut (RH)

Transmission Control Rod Adjustment Nut (LH)

Catcher Lift / Dump Handle

Spring Clip

Tilt-Up Latch

Deck Support Arm (LH)

Tilt-Up Deck Handle

Deck Support Pins and Height Adjustment Hitch Pins

Front View and Right Side View
Component Identification

Rear View and Left Side View
Component Identification

Model MTEFI

Top View (Engine Compartment) Model MTEFI
Component Identification

Model MTL and MTLEFI

Top View (Engine Compartment) Model MTL and Model MTLEFI (Model MTLEFI Shown)
Pay particular attention to any information labeled **DANGER, WARNING, CAUTION, IMPORTANT, and NOTE** in this manual.

When you see the Safety Alert Symbol (⚠️), read, understand, and follow the instructions. Failure to comply with safety instructions may result in personal injury.

The seriousness or degree of importance of each type of information is defined as follows:

<table>
<thead>
<tr>
<th><strong>DANGER</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>An IMMEDIATE hazard that WILL result in severe personal injury or DEATH, if warning is ignored and proper safety precautions are not taken.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>WARNING</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>A POTENTIAL hazard that COULD result in severe personal injury or DEATH, if warning is ignored and proper safety precautions are not taken.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>CAUTION</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Possible hazards or unsafe practices that MAY result in MODERATE personal injury or property damage, or machine damage, if warning is ignored and proper safety precautions are not taken.</td>
</tr>
</tbody>
</table>

**IMPORTANT**: Identifies mechanical information demanding special attention, since it deals with the possibility of damaging a part or parts of the machine.

**NOTE**: Identifies information worthy of special attention.

Walker Manufacturing cannot predict every potentially dangerous situation. Therefore, items labeled as such in this manual do not cover all conceivable situations. Any person using procedures, tools, or control techniques not recommended by Walker Manufacturing must take full responsibility for safety.

The Walker Rider Lawnmower has been designed with many safety features to protect the operator from personal harm or injury. However, it is necessary for the operator to use safe operating procedures at all times. **Failure to follow safety instructions contained in this manual may result in personal injury or damage to equipment or property.**

If you have any questions concerning setup, operation, maintenance, or safety, please contact your authorized Walker Mower dealer or call Walker Manufacturing Company at (970) 221-5614.

**BEFORE OPERATING**

1. **Read and understand the contents of this Owner's Manual before starting and operating the machine.** Become thoroughly familiar with all machine controls and how to stop the machine and disengage the controls quickly. Replacement Owner's Manuals are available by sending the Model and Serial Number to:

   Walker Manufacturing Company
   5925 East Harmony Road
   Fort Collins, CO 80528

2. **Never allow children to operate rider mower.** Do not allow adults to operate without proper instruction.

3. **Clear the area to be mowed of any foreign objects** which may be picked up and thrown by cutter blades. Pick up all sticks, stones, wire, and any other debris.

4. **Keep everyone, especially children and pets, a safe distance away from the area being mowed. Do not mow with bystanders in the area.**

5. **Do not operate the machine barefoot or wearing sandals, sneakers, tennis shoes, or similar lightweight footwear. Wear substantial protective footwear.**
Safety Instructions

6. Do not wear loose fitting clothing that could get caught in moving parts. Do not operate this machine while wearing shorts; **always wear adequate protective clothing**, including long pants. Wearing safety glasses, safety shoes, and a helmet is advisable and required by some local ordinances and insurance regulations.

7. Prolonged exposure to loud noise can cause impairment or loss of hearing. **Operator hearing protection is recommended**; particularly for continuous operation of the GHS Model due to blower noise level. Wear a suitable hearing protective device, such as earmuffs or earplugs.

8. **Keep all protective shields and safety devices in place.** If a protective shield, safety device, or decal is damaged, unusable, or missing, repair or replace it **before** operating the machine.

9. **Be sure interlock switches are functioning correctly**, so the engine cannot be started unless the Forward Speed Control lever is in the **NEUTRAL-PARK** position, and the PTO clutch is in the **DISENGAGED** position. Also, the engine should stop if the operator lifts off the seat with either the Forward Speed Control (FSC) out of the **NEUTRAL-PARK** position or the PTO clutch in the **ENGAGED** position.

   **NOTE:** There is a 1 to 1-1/2 second time delay function on the seat switch to avoid engine power interruption when driving over bumps.

10. **Handle gasoline with care.** Gasoline is highly flammable and its vapors are explosive:
   
   a. Use an approved fuel container.

   b. Never add fuel to a running engine or hot engine (allow hot engine to cool several minutes).

   c. Keep matches, cigarettes, cigars, pipes, open flames, or sparks away from the fuel tank and fuel container.

   d. Always fill the fuel tank outdoors using care. Fill to about one inch from the top of the tank. Use a funnel or spout to prevent spilling.

   e. Replace the machine fuel cap and container cap securely and clean up any spilled fuel before starting the engine.

11. **Never attempt to make any adjustments while the engine is running**, except where specifically instructed to do so.

12. The electrical system battery contains sulfuric acid. Avoid any contact with skin, eyes, and clothing. Keep the battery and acid out of reach of children.

   **WARNING**

   The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.
Safety Instructions

OPERATING

1. Operate the mower only in daylight or in good artificial light with good visibility of the area being mowed.

2. Sit on the seat when starting the engine and operating the machine. Keep feet on the deck footrests at all times when the tractor is moving and/or mower blades are operating. Never operate the tractor without a deck or implement installed.

3. For a beginning operator, learn to steer (maneuver) the tractor with a slow engine speed before attempting any mowing operation. Be aware that, with the front mounted mower configuration, the back of the tractor swings to the outside during turns.

4. Remember, for an emergency stop, the forward motion of the tractor can always be stopped by pulling the Forward Speed Control (FSC) into the NEUTRAL-PARK position.

5. In case either of the transmission drive belts break during operation, and if the machine is on a slope, the machine will freewheel down the slope. To maintain control, immediately (1) Release the steering levers and simultaneously (2) Move the FSC to the NEUTRAL-PARK position. When the machine is stopped or moving slowly, engage the parking brake.

NOTE: The emergency stop procedure is exactly the same procedure as used to normally stop and park this machine.

6. Disengage the blade clutch and put the FSC in the NEUTRAL-PARK position before starting the engine (an ignition interlock switch normally prevents starting of the machine if these controls are in the OPERATING position).

7. Do not operate machine if the operator presence safety switch system is not working. Verify proper operation by having the operator lift off the seat with the engine running and moving two controls, one at a time; (1) Move the FSC lever out of the NEUTRAL-PARK position, and (2) Engage the PTO Clutch. Moving either control should stop the engine after a 1-1/2 second delay.

8. Do not run the engine in a confined area without adequate ventilation. Exhaust fumes are hazardous and can be deadly.

9. Do not carry passengers - maximum seating capacity is one (1) person.

10. Watch for holes, rocks, and roots in the terrain and for other hidden hazards. When mowing tall grass, mow higher than desired to expose any hidden obstacles. Then, clean the area and mow to the desired height.

11. Avoid sudden starts or stops. Before backing the machine up, look to the rear to be sure no one is behind the machine. Watch carefully for traffic when crossing or working near roadways.

12. Disengage the blade drive when transporting the machine across drives, sidewalks, etc. Never raise the mower deck while blades are rotating.

DANGER

Do not mow around overhanging tree branches or bushes at the same height as the operator’s torso and head where inadvertent contact may cause injury.

13. The maximum recommended side slope operating angle is 20 degrees or 33% grade. When operating the machine on a slope, reduce speed and use caution to start, stop, and maneuver. To prevent tipping or loss of control of the machine, avoid sharp turns or sudden changes in direction.

14. Never adjust cutting height with the engine running. Before adjusting cutting height or servicing, disengage the blade clutch (PTO), stop the engine, and remove the ignition key. Wait for all movement to stop before getting off the seat.
NOTE: A blade/blower brake should normally stop drive line rotation within five (5) seconds of disengaging the PTO clutch.

15. For side discharge mower decks, do not operate with the grass deflector chute removed. Keep the deflector in the lowest possible position.

16. For tractors equipped with tilt-up deck, observe the following recommendations:
   a. Do not move tractor with deck in tilt-up position.
   b. Never tilt body forward with deck in tilt-up position.

17. For GHS equipped models, do not operate the machine with the grass catcher in the DUMP position or with the back door OPEN. Dangerous projectiles may be thrown out of the discharge chute or the back of the grass catcher.

18. For GHS equipped models, use care when closing the grass catcher door. Keep fingers and hands away from the hinge and pinch points when the door is being closed. Also, keep fingers and hands clear of the door frame. The door may slam shut with considerable force.

19. In case of a clogged or plugged mower deck or GHS catching system:
   a. Disengage the blade clutch (PTO) and turn the engine off before leaving the seat.
   b. LOOK to make sure blade drive shaft and blower drive pulley movement has stopped before trying to unclog the system.
   c. Disconnect the spark plug wires.
   d. Never place hands under the deck or in the GHS blower - use a stick or similar tool to remove clogged material.

20. If the cutting blades strike a solid object or the machine begins to vibrate abnormally, immediately disengage the blade clutch (PTO), stop the engine, and wait for all moving parts to stop. To prevent accidental starting, disconnect the spark plug wires. Thoroughly inspect the mower and repair any damage before restarting the engine and operating the mower. Make sure cutter blades are in good condition and blade nuts are torqued to 60 ft-lb (81.3 N·m).

21. Do not touch the engine or muffler while the engine is running or immediately after stopping the engine. These areas may be hot enough to cause serious burns.

22. When leaving the machine unattended, disengage the blade clutch (PTO), stop the engine, and remove the key.

23. For Model MTL and MTLEFI, never remove the radiator pressure cap when the engine is hot (hot water may spray and cause burns).

⚠️ CAUTION

Use leg muscles and firm footing when lifting the catcher to dump; avoid bending at the waist and using back muscles to avoid back injury.
Safety Instructions

MAINTENANCE

1. To prevent accidental starting of the engine when servicing or adjusting the machine, remove the key from the ignition switch and disconnect the spark plug wires.

2. To reduce fire hazards, keep the engine free of grass, leaves, excessive grease, and dirt.

3. Keep all nuts, bolts, and screws tight to ensure the machine is in a safe, working condition. Check the blade mounting nuts frequently, making sure they are tight.

4. Perform only maintenance instructions described in this manual. Unauthorized maintenance operations or machine modifications may result in unsafe operating conditions.

5. If the engine must be running to perform a maintenance adjustment, keep hands, feet, and clothing away from moving parts. Do not wear jewelry or loose clothing.

6. Always use the proper engine service manual when working on the engine. Unauthorized maintenance operations or modifications to the engine may result in unsafe operating conditions.

7. Altering the equipment or engine in any manner which adversely affects its operation, performance, durability, or use will VOID the warranty and may cause hazardous conditions.

8. Never attempt to disconnect any safety devices or defeat the purpose of these safety devices.

9. Do not change the engine governor settings or overspeed the engine. The governor has been factory-set for maximum-safe engine operating speed.

10. Use genuine factory replacement parts. Substitute parts may result in product malfunction and possible injury to the operator and/or others.

11. Use care when charging the battery or performing maintenance on the battery and electrical system:
   
a. Make sure the battery charger is unplugged before connecting or disconnecting cables to the battery.

b. Charge the battery in a well-ventilated space, so gases produced while charging can dissipate. Make sure the battery vents in the caps are open.

c. Keep sparks, flames, and smoking materials away from the battery at all times. To avoid sparks, use care when removing battery cables from posts.

d. Disconnect both battery cables before unplugging any wiring connectors or making repairs on the electrical system.

IMPORTANT: Keep all applicable manuals immediately accessible to anyone who may operate or service this machine.
SAFETY, CONTROL, AND INSTRUCTION DECALS

Safety, Control, and Instruction Decals are installed on the machine; if any are missing, illegible, or damaged, a replacement should be ordered and installed before putting the machine into operation. The Decal Part Number is listed below and in the Parts Manual.

Each End of Mower Deck (5808 All Decks Except 52, 56, 74) (5808-1 52, 56, 74 Decks)

SD Deck Discharge Shield (5848)

On Body Adjacent to Clutch Control Lever (5806)

Front Body Adjacent to RH Steering Lever (7818)

WARNING

Stop Engine Before Raising Front Body

Rotating Components Contact May Cause Severe Injury

Body Latch Release

Body Latch Release Pull Up and Forward

Right Side, Below Operator Seat (7809)

LEFT SIDE OF OPERATOR SEAT (8819)

Parking Brake

Release

PARK

ON

OFF

CHoke

THROTTLE

Fast

Idle

Right Side, Behind Operator Seat (8400-6)

Left Side of Operator Seat (7819)
Safety Instructions

SAFETY, CONTROL, AND INSTRUCTION DECALS

Safety, Control, and Instruction Decals are installed on the machine; if any are missing, illegible, or damaged, a replacement should be ordered and installed before putting the machine into operation. The Decal Part Number is listed below and in the Parts Manual.

Bridge Assembly and LH Gear Axle (5810-3)

Deck Gearbox Cover (5807-3)

Deck Carrier Frame (8647)

On Engine (6810)

Deck Carrier Frame (5865)

Hydrostat Oil Reservoir

Catcher Safety Latch, RH Side (5874)
(7.0 Catcher only)

Gear Axle (5810-1)

Jackshaft Support Adjacent to Dipstick (7827)

Instrument Panel MT (8823-2), MTEFI (8823-3), MTL (8823-4), MTLEFI (8823-5)

Fender, RH Side (7802)
Assembly Instructions

SETUP INSTRUCTIONS
Walker Mowers are shipped partially assembled. After uncrating the tractor and mower deck, initial setup is required.

NOTE: During the process of unpacking, any damaged or missing parts should be noted and reported to the delivering carrier immediately (put in writing within 15 days). The carrier will provide directions for proceeding with a claim to receive compensation for damage.

Tire Installation (Tractor)
- Install the drive tires using the eight (8) lug bolts that are supplied with the owner’s packet of materials. Bolts are torqued to 75 to 85 ft-lb. Drive tires are 18 x 9.50-8, 4-ply; rear tires are 13 x 5.00-6, 4-ply.
- Check and adjust the inflation of the tires. The tire inflation recommendations are:
  Drive = 15 PSI (103 kPa)
  Rear = 20 PSI (137 kPa)

Battery Service

CAUTION

Important Battery Service, Installation, and Changing Tips for MTEFI/MTLEFI:
- Do not allow the battery cables to touch opposing terminals. When connecting battery cables attach the positive (+) cable to positive (+) battery terminal first, followed by negative (-) cable to negative (-) battery terminal.
- Never start the engine when the cables are loose or poorly connected to the battery terminals.
- Never disconnect battery while engine is running.
- Never use a quick battery charger to start the engine.
- Never “jump start” the engine using another source. Electricity fluctuations can damage the ECU (Electronic Control Unit).
- Always disconnect negative (-) battery cable lead before charging battery, and also unplug harness from ECU before performing any welding on equipment.

Raise front mower body up for battery access (refer to Front Body Latch Release in Operating Instructions). Check the battery for electrolyte level and charge. The electrolyte level should be at the bottom of the vent wells [1/4 to 1/2 in. (6 to 13 mm) above plates]. If the specific gravity is less than 1.225, the battery needs charging. If the battery has been shipped dry, or is wet but needs service, refer to the following instructions.

IMPORTANT: Make sure battery is securely mounted in the frame. A loose battery may cause damage to the case resulting in acid leakage and severe damage to the machine. A hazard may be created by damage to critical working parts and safety systems.

Wet Battery Service
If the battery has been shipped wet, but the electrolyte level is low or the battery needs to be charged then:

1. Fill each battery cell with distilled water to the bottom of the vent wells.
2. Charge battery. Refer to Battery Charging in this section.

Dry Battery Service

DANGER

Activating a battery can be dangerous. The battery should be taken to a reliable service station, battery store, or power equipment dealer where a trained technician can activate the battery safely. DO NOT attempt to activate the battery unless you are experienced in battery service work. The following activation and charging instructions are provided for use by a trained battery technician.
Assembly Instructions

To fill (activate) battery with electrolyte (if battery has been shipped dry):

1. Remove the battery hold-down bar, disconnect the battery cables and lift the battery out of the tray.

**IMPORTANT:** Battery must be removed from the mower before filling with electrolyte.

**IMPORTANT:** Obtain and use only battery grade sulfuric acid electrolyte with a 1.265 specific gravity to activate the battery. **DO NOT** use water or any other liquid during initial activation.

2. Remove the filler caps and carefully fill each cell until the electrolyte is just above the plates.

3. After the battery is filled with electrolyte, replace the filler caps and charge the battery. Refer to *Battery Charging*.

### Battery Charging

**DANGER**

Battery electrolyte is a poisonous and corrosive sulfuric acid solution.

- Avoid spillage and contact with skin, eyes, and clothing - causes severe burns.
- To prevent accidents, wear safety goggles and rubber gloves when working with electrolyte.
- Neutralize acid spills with baking soda and water solution.

To prevent accidents, wear safety goggles and rubber gloves when working with electrolyte.

**IMPORTANT:** DO NOT exceed 20 amps maximum recommended charging rate. Charge until specific gravity is at least 1.250. Total charging time should not exceed one (1) hour.

2. After charging the battery, adjust the electrolyte level to the bottom of the vent wells [1/4 to 1/2 in. (6 to 13 mm) above the plates].

**IMPORTANT:** DO NOT overfill the battery. Electrolyte will overflow through the vented caps onto parts of the machine and **WILL** result in severe corrosion.

3. Install battery.

**BATTERIES PRODUCE EXPLOSIVE GASES**

- Charge the battery in a well-ventilated area, so that gases produced while charging can dissipate.
- Keep sparks, flames, and smoking materials away from the battery at all times.
- Make sure the battery cap vents are open after the battery is filled with acid (check manifold vent on each cap).
- Make sure the battery charger is unplugged before connecting or disconnecting cables to the battery.

**IMPORTANT:** On MTEFI and MTLEFI models, always disconnect the negative (-) battery terminal before charging. Failure to do so can result in damage to the ECU.

1. Charge the battery at 15 amps for 10 minutes. **DO NOT** exceed 20 amps maximum recommended charging rate. Charge until specific gravity is at least 1.250. Total charging time should not exceed one (1) hour.

2. After charging the battery, adjust the electrolyte level to the bottom of the vent wells [1/4 to 1/2 in. (6 to 13 mm) above the plates].

**IMPORTANT:** DO NOT overfill the battery. Electrolyte will overflow through the vented caps onto parts of the machine and **WILL** result in severe corrosion.

3. Install battery.
Assembly Instructions

Battery Installation

**IMPORTANT:** Make sure battery is securely mounted in the frame. A loose battery may cause damage to the case resulting in acid leakage and severe damage to the machine. A hazard may be created by damage to critical working parts and safety systems.

Install the battery in the mower as shown in **Battery Installation** photo. Connect the positive (+) first and then the negative (-) cable to the proper battery terminal. Slide the rubber boot up and over the battery post, making sure it covers the post completely to prevent an electrical short.

**WARNING**

Make sure the battery cap vents are open. Improper venting of the battery COULD cause a battery explosion.

Battery Installation

Mower Deck Assembly

**Deck Caster Wheels Installation**

1. Remove the bolt, nut, axle spacer tube, and spacer washers from each deck caster wheel fork.

   **NOTE:** Spacer washers are used only when the optional foamed rubber deck wheels (8 x 3.00) are installed.

2. Fit the axle spacer tube through the wheel hub, position the spacer washer on each side of the hub (if used), and fit the assembly into the wheel fork.

3. Insert the 3/8-16 x 4-1/2 in. bolt through the wheel fork with the bolt head to the outside and install the 3/8-16 in. Keps nut.

4. Tighten the bolt and nut until the axle spacer tube bottoms against the inside of the wheel fork (will not turn) while the wheel and spacer washers (if used) spin freely without binding.

**Deck Caster Wheel Installation**

5. Grease the caster wheel bearings and caster pivot bearings - one grease fitting for each wheel and each pivot.

**Deck Discharge Chute Installation**

(GHS Rear Discharge Models Only)

Mount the discharge chute hinge on top of the deck discharge opening using the 1/4-20 x 1/2 in. socket button head screw and 1/4-20 ESNA nut. Position the screw with the head inside of the chute and the nut on the outside. Attach spring for tilt-up action from chute to bracket on deck.

**Discharge Chute and PTO Shaft Guard Installation on Rear Discharge Deck**
Assembly Instructions

Deck Discharge Shield Installation
(Side Discharge Models Only)

Attach the deck side discharge shield by positioning the shield hinge lug in front of the deck mount and fastening with two (2) 3/8-16 x 1-1/4 in. bolts, 3/8-16 ESNA nuts, and 3/8 in. wave spring washers. The wave washers fit between the two hinging surfaces. Tighten the nuts until the shield moves freely but is not loose.

WARNING

DO NOT operate the machine without the grass deflector chute attached and in the lowest possible position.

Discharge Shield Installation on Side Discharge Deck

PTO Shaft Guard Installation

Position the shaft guard and mount with two (2) 1/4-20 x 1/2 in. bolts.

Tilt-Up Roller Wheel Installation

Mount the two (2) tilt-up roller wheels on the brackets on the rear skirt of the deck housing using the P/N 8490 axle bolt, 3/8 in. wave spring washer and 3/8-16 in. Whiz locknut. Tighten the axle bolt until the wheel rolls freely, but is not loose.

Mower Deck Installation on Tractor

Deck Installation

1. Lightly grease each deck support arm (2) on the tractor. Refer to Mower Deck Installation photo for location of deck support arm.

2. Engage the deck carrier frame tube sockets on the tractor support arms (refer to Discharge Chute and PTO Shaft Guard Installation photo for socket location), slide the deck onto the support arms approximately 3 in. (76 mm).

3. Retract spring-loaded coupler ring on the PTO Tube (provided in owner’s packet) and insert coupler tool. Refer to Quick Coupler Installation Tool photo.

WARNING

DO NOT operate the machine without the grass deflector chute attached and in the lowest possible position.
4. Reaching under the tractor, join the PTO tube to the PTO shaft (align arrow decals). Slide the PTO tube onto the spline shaft on the tractor PTO gearbox.

**NOTE:** When installing the DSD52 Mower deck, make sure to retract the dolly wheel after mounting the deck on the tractor.

5. Slide the deck the rest of the way on the deck arms. If the deck is rear discharge (GHS equipped model), the rear discharge chute will need to be aligned and connected to the blower inlet during the last 2 in. (51 mm) of slide action on the support arms.

**NOTE:** Raising the mower body may be helpful in fitting and guiding the deck chute into the blower.

6. Install the hitch pin through the hole on the end of each support arm to lock the deck in place (refer to **Deck Counterweight Spring Installation** photo). Two (2) hitch pins are included in the owner’s packet of materials.

7. Remove Installation Tool from coupler ring and make sure the ring has “snapped” securely on the spline shaft.

**IMPORTANT:** **DO NOT** operate tractor with Quick Coupler Installation Tool installed.

**IMPORTANT:** To prevent damage to the mower, make sure the PTO shaft assembly is securely locked on the tractor, with the locking balls fully seated in the groove and the ring in the full forward position (refer to the **Coupler Ring “Locked” Position** photo). After installation, pull on the shaft to check for security.

8. Raise the mower body (instead of lifting the front of deck) and clip the counterweight springs to the receptacle on front of body. Lower the body to tension the springs. (Refer to **Deck Counterweight Spring Installation** photo.)

9. With the counterweight springs connected, the weight on the deck caster wheels should be 15 to 25 lb (6.8 to 11.3 kg); this adjustment is preset at the factory. If required, the spring tension can be adjusted by tightening or loosening the elastic stop nuts located underneath the lower spring hook, or contact your local dealer if additional help is required. Refer to **Deck Counterweight Spring Installation** photo.
Assembly Instructions

Deck Leveling

1. Position mower on a smooth, level surface. Set the cutting height to the highest position - 4 in. (102 mm) - for easy access under the deck to measure blade height. Refer to ADJUSTING CUTTING HEIGHT in Operating Instructions.

NOTE: A block of wood cut 4 in. (102 mm) high is a convenient gauge to measure blade height above ground during the leveling process.

2. Check the side-to-side level. Rotate each blade sideways and measure the distance from blade tip to ground on each side. If measurements vary more than 1/8 in. (3 mm), add a washer shim under the deck support pins on the low side to level the deck.

3. Check the front-to-rear level. Rotate the blades to point forward. Measure the distance from blade tip to ground on the front and rear. The rear of the blade should be 1/8 to 1/4 in. (3 to 6 mm) higher than the front of the blade; shim the rear (or front) deck support pins equally to achieve at least 1/8 in. (3 mm) difference.

NOTE: The mower deck and support frame are jig welded; within normal tolerances, very little, if any, shimming should be required to level the deck. Tire pressure will influence the levelness of the deck. Check the tire pressure as a possible cause of the deck not being level.

WARNING

The machine must be shut off during this procedure.

4 in. (102 mm) Wood Block

Should be 1/8 in. (3 mm) to 1/4 in. (6 mm) higher at the rear of the blade

4 in. (102 mm) Wood Block

Should not vary more than 1/8 in. (3 mm) side-to-side
PREOPERATING CHECKLIST

Before operating the mower for the first time, and as a routine before daily operations, it is important to make sure the mower is properly prepared and ready for operation. The following is a list of items to be checked. (For a mower with frequent operation, some of these items will not need to be checked every day, but the operator should be aware of the condition of each.)

For proper fuels and lubricants refer to Specifications.

☐ FILL FUEL TANK

Fill the fuel tank using clean, fresh automotive grade unleaded gasoline (87 octane rating minimum).

**DANGER**

Handle gasoline with care. Gasoline is highly flammable and its vapors are explosive. Use safe refueling procedures:

- DO NOT fill fuel tank with the engine running.
- If the engine is hot, allow to cool before refueling.
- Use an approved fuel container.
- Fuel the mower outdoors.
- DO NOT smoke while refueling.
- Avoid spilling fuel; use a funnel or spout.
- DO NOT overfill the fuel tank; fill up to about 1 in. (25 mm) below the top of tank.

**IMPORTANT:** DO NOT permit dirt or other foreign matter to enter the fuel tank. Wipe dirt from around the filler cap before removing. Use a clean fuel storage container and funnel.

**IMPORTANT:** DO NOT mix oil with gasoline. Always use fresh, automotive grade gasoline. DO NOT use premium, white, or high-test gasoline. DO NOT use additives, such as carburetor cleaners, deicers, or moisture removing agents. DO NOT use gasoline blended with methyl alcohol.

☐ CHECK ENGINE CRANKCASE OIL LEVEL

Check the engine crankcase oil level before use and after each 8 hours of continuous operation. Refer to LUBRICATION for Checking Engine Crankcase Oil Level in Maintenance Instructions.

☐ CHECK AND SERVICE ENGINE AIR CLEANER SYSTEM

- Check air restriction gauge to make sure there is no red indication showing.
- Check condition, cleanliness, and security of the complete air cleaner system (every 100 hours). For detailed procedures, refer to CLEANING the Engine Air Cleaner System in Maintenance Instructions.

☐ CHECK ENGINE COOLING SYSTEM - Model MT and MTEFI

Check that the engine cooling air intake screen is free of obstruction by grass clippings or debris and clean if required. Also, cylinder head cooling fins should be inspected and cleaned if any build-up of debris is noted [remove two (2) cylinder head access panels to inspect and clean].

Check performance of the cooling system by starting the engine, holding a hand adjacent to the cylinder heads, and feeling the cooling airflow.

**DANGER**

Make sure to keep hands clear of exhaust pipe, muffler, and moving parts when checking airflow.
Assembly Instructions

- **CHECK ENGINE COOLING SYSTEM - Model MTL and MTLEFI**
  - Check the radiator air intake screen to make sure the screen is clean and free of obstruction. Also, the radiator cooling fins should be inspected and cleaned if there is any buildup of dirt or debris. (Remove the intake screen assembly to inspect and clean.)
  - Check the coolant levels in the radiator and overflow tank. If additional coolant is needed, refer to **CHECKING/SERVICING the Engine Cooling System - MTL and MTLEFI** in Maintenance Instructions.

**WARNING**

DO NOT remove the radiator pressure cap when engine is hot.

- **CHECK GEAR AXLE OIL LEVEL**
  Refer to **LUBRICATION for Gear Axle Lubrication** in Maintenance Instructions.

- **INSPECT FOUR (4) DRIVE BELTS**
  Engine PTO Drive, Jackshaft Drive, Hydrostatic Ground Drive, and GHS Blower Drive (if equipped).

- **CHECK HYDRAULIC TRANSMISSION OIL LEVEL**
  Refer to **LUBRICATION for Checking Hydrostatic Transmission Fluid Level** in Maintenance Instructions.

- **CHECK FUNCTIONS OF INSTRUMENT PANEL AND WARNING HORN**
  Turn the ignition key to the **RUN** position. Voltmeter, Oil Pressure Light, and Warning Horn should all operate, indicating normal function.

- **CHECK FUNCTION OF SAFETY INTERLOCK SWITCHES**
  Refer to **Operating Instructions** to check for proper operation of safety switches, both during engine starting and with this operator leaving the seat with tractor moving forward or with the mower blades engaged.

- **CHECK TIRE PRESSURE**
  Deck Caster Wheel = 20 PSI (137 kPa)
  Drive = 15 PSI (103 kPa)
  Rear = 20 PSI (137 kPa)

- **CHECK AND CLEAN GRASS BUILDUP UNDERNEATH MOWER DECK (and inside GHS blower, if equipped)**
  Refer to **CLEANING the GHS Blower** in Maintenance Instructions for blower cleaning information.

**DANGER**

Never operate cutter blades with deck in raised position because it is hazardous.

The tilt-up deck can be secured in the raised position by unlocking the deck lock levers on each side of the carrier frame and inserting the deck hook into the tilt-up latch on the tractor body. Before operating the tractor, make sure to re-engage the deck lock levers after lowering the deck to the normal operating position.

**CAUTION**

Do not operate machine with deck tilt-up pivot joint unlocked.
Assembly Instructions

⚠️ DANGER

Do not operate the mower with deck in tilt-up position. Do not move the tractor with the deck in the tilt-up position.

☐ CHECK MOWER BLADE CONDITION, SHARPNESS, AND SECURITY OF MOUNTING

The blade mounting nut should be tightened to 60 ft-lb (81.3 N·m). If blade sharpening is required, refer to CHECKING/SERVICING for Sharpen Mower Blades in Maintenance Instructions.

☐ ADJUST MOWER CUTTING HEIGHT, IF REQUIRED

Position the hitch pins in the four deck support pins. Refer to the “Cutting Height Adjustment” decal on the deck gearbox cover.

☐ CHECK DRIVE WHEEL BOLT TORQUE

The lug bolts mounting the drive tires should be tightened to 75 to 85 ft-lbs. (101.7 to 115.2 N·m).

☐ PERFORM ANY ADDITIONAL PROCEDURES called for on the MAINTENANCE SCHEDULE CHART in Maintenance Instructions.
CONTROL IDENTIFICATION, LOCATION, AND FUNCTION

Operating Controls

**CAUTION**

Before operating the mower, become familiar with the location and function of all operator controls. Knowing the location, function, and operation of these controls is important for safe and efficient operation of the mower.

**Engine Choke - (Model MT and MTL only)**

The choke control lever (black knob) is located on the left side of the seat. To start a cold engine, move the choke control forward to the **ON** position. After engine starts, move the choke control toward the **OFF** position, keeping enough choke to allow the engine to run smoothly as it warms up. As soon as possible, move the choke to the **OFF** position. A warm engine requires little or no choke for starting.

**IMPORTANT:** Make sure the choke is in the **OFF** position during normal engine operation; running with the choke in the **ON** position **CAN** damage the engine.
Operating Instructions

**Choke and Throttle Location (MT and MTL)**

**Engine Throttle**

The throttle control lever (red knob) is located on the left side of the seat and is used to control engine speed. Moving the lever *forward* toward the **FAST** position *increases* engine speed; moving it *backward* toward the **IDLE** position *decreases* engine speed.

**Forward Speed Control (FSC)**

Forward Speed Control (FSC) has two functions: One is to set forward travel speed, and the other is to establish the **NEUTRAL-PARK** position. When the FSC lever is moved into the **FORWARD** position, a friction lock holds any forward speed setting from 0 to 5 mph (0 to 8 km/h). The ground speed is proportional to the lever position; the further the lever is advanced forward, the faster the tractor moves. It is not necessary to hold the FSC in position since the friction lock maintains the selected lever position. Pulling back on the steering levers overrides the FSC setting and slows or stops forward travel. Releasing the steering levers allows the tractor to resume forward travel at the speed set by the FSC lever. To stop and park the machine, the FSC lever is moved backward to the **NEUTRAL-PARK** position.

**Steering Levers**

Each drive wheel is controlled by its own independent steering lever, for both steering function and **FORWARD/REVERSE** motion. The FSC lever sets the maximum forward speed, and also sets the forward position of the steering levers. The steering levers operate *only with a backward pulling* movement of the lever, which causes the drive wheel for that lever to first slow down, stop, and then reverse with a full backward lever stroke. The levers are released to the **FORWARD** position for "straight-ahead" ground travel.

**NOTE:** Pushing forward on the steering levers will not cause any change in tractor motion - there will be no steering lever reaction and there will be no machine damage.

**Blade Clutch (PTO)**

The blade clutch lever has two positions. Pulling the lever **UP** engages the PTO that drives the mower blades. Pushing the lever **DOWN** disengages the PTO and engages the blade brake.

**NOTE:** On GHS equipped models, the Powerfil® motor and Grass-Pak® full signal switch are activated by engaging the blade clutch. Refer to **Using the GHS Catcher** in this section for a complete description of GHS operation.

**Parking Brake**

The parking brake functions by locking a pin into the hydrostatic transmission pinion gear teeth. Moving the lever **FORWARD engages** the parking brake; moving the lever **BACKWARD releases** the brake.

**IMPORTANT:** Stop the tractor completely before engaging the parking brake. The parking brake uses a positive mechanical lock similar to the **PARK** position on an automotive automatic transmission. If the tractor is moving when the brake is engaged, it will result in sudden stoppage and possible internal damage to the axle drive.

**NOTE:** If pressure on the parking brake pin (e.g. parked on a hill) makes it impossible to release the parking brake with the parking brake lever, move the mower gently forward or backward to release the pin.
Operating Instructions

The Forward Speed Control also Establishes the **Neutral-Park** Position of the Steering Levers

**LEFT WHEEL STEERING LEVER**
- Forward Position (No Control Change)
- Neutral-Park Position
- Reverse Drive Wheel Motion Position

**RIGHT WHEEL STEERING LEVER**
- Neutral-Park Position

**FORWARD SPEED CONTROL LEVER (FSC)**
- Full Forward Ground Speed Position
- Intermediate Ground Speed Position
- Neutral-Park Position

**PARKING BRAKE**
- Engaged Position
- Disengaged Position

**THROTTLE**
- Fast Throttle Position
- Idle Position

**CHOKE (MT & MTL)**
- ON Position
- OFF Position

**BLADE CLUTCH (PTO)**
- Pull Up to Engage

**MT, MTEFI, MTL, and MTLEFI Operating Controls (Top View from Drivers Point of View)**
Operating Instructions

Front Body Latch Release

The front portion of the tractor body hinges forward for maintenance access and is latched down in the OPERATING position. To raise the body, move the latch release forward.

NOTE: The transmission plunger on the side of the transmission case (activated by the LOCKOUT LEVER) must be completely released during operation of the mower, otherwise operation of the transmission will be erratic.

Optional Cold Start Lever (Jackshaft Drive Belt Release)

The cold start lever is used for starting the machine in cold weather [below 40° F (4° C)]. Pulling the lever UP disengages the jackshaft drive belt. When the jackshaft drive belt is released, the hydrostatic transmissions are removed from the engine starter cranking load.

Transmission Lockout Levers

The transmission lockout levers disengage the hydrostatic transmissions. By lifting the lever on top of the transmission and locking it into place with the lockout cam, the hydrostatic transmissions are released to permit freewheeling. By releasing the cam and lowering the lever, the transmissions are engaged for normal operation. The transmission lever in the LOCKOUT position is used to enable moving the machine without the engine running (e.g., for service). Refer to TRANSMISSION LOCKOUT in this section for operating instructions.

Lockout Lever Location

Optional Cold Start Lever Normal Operating Position

Cold Start Lever Engaged

Optional Cold Start Lever Cold Start Position
Operating Instructions

Suspension Seat (MTL and MTLEFI)

A fully adjustable suspension seat is standard on Models MTL and MTLEFI. This seat is adjustable for back pitch, weight, lumbar support and armrest inclination. Proper adjustment for each operator is essential to safe operation and operator comfort.

Read operating instructions in full before you use the seat.

NOTE: Driver seats that have been adjusted incorrectly have little or no vertical travel with the operator in the seat. To prevent damage to the driver’s back and to the seat, the seat must be adjusted for the driver’s weight before use and before every change of driver. To prevent injury, no objects should be placed within the moving area of the driver seat.

Adjustments must **not** be made while driving.

If you make any changes to the suspension seat (for example fitting parts which are not original GRAMMER parts) it may no longer meet the safety standards to which it is tested. **Functions may be impaired**, threatening your safety. For this reason, any change in design of the seat must be approved by GRAMMER (Seat Manufacturer).

**IMPORTANT:** Fasteners must be **checked regularly for tightness.** If the seat wobbles there may be loose bolts or other faults.

If you note that the seat does not function correctly (for example a defective seat suspension; improper curving of the lumbar support or damaged bellows), **contact your Walker dealer immediately** to arrange for repairs to be carried out. If you fail to do so, your health may be affected and the **risk of accident increased.**

CAUTION: Before the tractor is used, the safety switch must be checked for **proper function.** The operation of the switch is checked by having the operator lift off the seat with the tractor moving forward and/or the blades engaged -- this action should cause the machine to stop. If a malfunction is detected the tractor must not be driven, it should be repaired or replaced before operating the mower.

**CAUTION**

Except for the driver’s weight during normal use, no loads must be placed on seats with a built-in switch detecting seat occupation, as the vehicle may otherwise start to move by itself.

For armrest inclination adjustment, the inclination of the armrests can be modified by turning the adjustment knob. Refer to **Figure 1.**

Turning the knob to the right lifts the armrest in front, turning it to the left, lowers it in front.

For **weight adjustment,** the weight of the respective driver must be set while sitting on the seat. Fold out the weight adjustment handle completely, hold it at the front and move it upwards or downwards (10 movements from minimum to maximum).

Before every new movement, bring the handle back to the starting position (audible locking sound). The driver’s weight has been set correctly, when the arrow is in the middle of the viewing window. Refer to **Figure 2.**

**IMPORTANT:** To prevent injury to the operator and/or damages to the seat, the setting for the driver’s weight must be checked and adjusted as necessary before the mower is driven.

When the minimum/maximum weight adjustment has been reached, you will notice an empty movement in the handle.

When you have set the weight, fold the handle completely into the locking position.
Operating Instructions

For Backrest adjustment, moving the adjustment handle upwards loosens the notching of the backrest adjustment. Refer to Figure 3.

After the adjustment, the handle must lock in the desired position. It should not be possible to move the backrest into another position when it is locked.

For Armrest height adjustment, the armrests can be folded back if required and the height individually adjusted.

For adjusting the height of the armrest, pry out the round cap (arrow) of the cover and loosen the hexagon nut (size 13mm) situated behind it. Set the armrests in the desired position (5 steps) and tighten the hexagon nut. Replace the cap onto the nut. Refer to Figure 4.

For Lumbar Support adjustment, turning the knob upwards sets the curve in the upper part of the back upholstery. Turning the knob downwards sets the curve in the lower part of the upholstery. Refer to Figure 5.

IMPORTANT: Dirt can impair the function of the seat, so make sure you keep your seat clean!

For cleaning, use a standard commercially available upholstery or plastics cleaning agent. Test first for compatibility on a small, concealed area.
Operating Instructions

Instrument Panel

This illustration shows the configuration of the switches and indicators located on the instrument panel.
Operating Instructions

MTL

- Voltmeter
- Water Temperature Gauge
- Oil Pressure Warning Light
- Water Temperature Warning Light
- Ignition Switch
- Light Switch (Optional)
- Hourmeter
- 10 AMP Circuit Breaker
- 7 AMP Circuit Breaker
- Warning Horn

MTLEFI

- Voltmeter
- Water Temperature Gauge
- Oil Pressure Warning Light
- Water Temperature Warning Light
- Ignition Switch
- Light Switch (Optional)
- Hourmeter
- 10 AMP Circuit Breaker
- 7 AMP Circuit Breaker
- Service Engine Soon Warning Light
- Warning Horn
Operating Instructions

**Hourmeter**
The hourmeter, which is located on the instrument panel, displays *operating time* accumulated while the ignition switch is in the **ON** position.

The hourmeter provides maintenance reminders after certain hours of operation. The hourmeter screen will start flashing the reminder one hour prior to the recommended interval and will continue until one hour after the recommended interval (two hours). The hourmeter **does not have a manual reset function**.

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Interval*</th>
<th>Reminder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil Change (Break-In)**</td>
<td>4-6 Hours</td>
<td>CHG OIL</td>
</tr>
<tr>
<td>Lubricate and Check Levels</td>
<td>24-26 Hours</td>
<td>LUBE</td>
</tr>
<tr>
<td>Oil Change</td>
<td>49-51 Hours***</td>
<td>CHG OIL</td>
</tr>
</tbody>
</table>

* These intervals reflect the actual time that the reminder will flash (one hour prior to and one hour after the recommended interval).

** This reminder is only used one time.

*** In normal operating conditions, oil changes in 100-hour intervals are acceptable. Walker and the engine manufacturers recommend engine oil changes every 50 hours in extremely dirty or dusty conditions or for units with less than 100 hours annual use.

**NOTE:** The blinking hour glass on the display means that the meter is operating properly.

**Voltmeter**

The voltmeter displays battery and charging system voltage. An indication of low or high voltage (the red area) indicates an **electrical system failure**. The cause of the failure should be determined and corrected.

**Oil Pressure Warning Light**

The oil pressure warning light indicates that engine oil pressure is below the safe operating level [below 3 to 5 PSI (21 to 34 kPa)]. This **light (and warning horn)** will come on when the ignition is turned **ON**, but should go off after the engine is started. If the light fails to come on when the ignition switch is turned **ON**, it could indicate a burned out bulb. If the light comes on during engine operation, stop the engine immediately and correct the source of the problem before further engine operation.

**IMPORTANT:** Continued operation of the engine with an illuminated oil pressure warning light **MAY cause severe engine damage** (if a low oil pressure condition exists).

**Over Temperature Warning Light**

(Model MT and MTEFI Only)

The over temperature warning light indicates that engine oil temperature and/or cylinder head temperature are above the safe operating limit and the **engine is overheating** [above 305° F (152° C) oil or 450° F (232° C) cylinder head]. If this light comes on, there may be a problem with:

- Engine cooling system (material packed into cylinder head cooling fins, clogged air intake screen)
- Low oil level in crankcase

Stop the engine and correct the source of the problem before further operation.

**IMPORTANT:** Continued operation of the engine with an illuminated over temperature warning light **MAY cause severe engine damage** (if a high oil temperature or head temperature condition exists).
Operating Instructions

Water Temperature Warning Light
(Model MTL and MTLEFI Only)

The water temperature warning light indicates that engine coolant temperature is above the safe operating limit and the engine is overheating. If this light comes on, there may be a problem with:

- Radiator cooling air flow (material packed into radiator cooling fins, clogged air intake screen)
- Cooling fan not operating
- Low coolant quantity in cooling system

Water Temperature Gauge
(Model MTL and MTLEFI Only)

The water temperature gauge monitors engine cooling system temperature. If engine coolant temperature exceeds 230° F (110° C), an overheat condition exists; the water temperature light will come on and the warning horn will sound.

**WARNING**

If engine cooling system overheating is indicated, continued operation of the engine, even for a short time, COULD result in fire, risk of personal injury, and severe damage to equipment.

Engine Service Light
(Model MTEFI and MTLEFI Only)

The engine service light indicates the Engine Control Unit (ECU) has detected a fault in the engine performance. When this light illuminates during operation, contact an authorized Kohler Service dealer to diagnose the fault.

**IMPORTANT:** Continued operation of the engine with an illuminated engine service light will result in sub-standard performance and MAY cause engine damage if not corrected as soon as possible.

Ignition Switch

The ignition switch is used to start and stop the engine. The switch has three positions: “O” is the OFF position, RUN is the position the key returns to after starting, and “S” is the START position. When starting the engine, turn the key clockwise to the “S” position. Do not hold the key in the “S” position longer than 10 seconds. If the engine does not start, return the key to the “O” position for at least 60 seconds before making a restart attempt. Prolonged cranking can damage the starter motor and shorten battery life. Release the key when the engine starts, and it will return to the “RUN” position. To stop the engine, rotate the key counterclockwise to the “O” position.

**WARNING**

If engine cooling system overheating is indicated, continued operation of the engine, even for a short time, COULD result in fire, risk of personal injury, and severe damage to equipment.

Light Switch (For Optional Lights)

Operates headlights (when installed).

Warning Horn

The warning horn sounds to alert the operator that an unsafe engine condition is being indicated - when engine temperature is too high or engine oil pressure is too low. If the horn sounds, check the indicator lights and correct the problem before further operation.
Circuit Breakers

Depending on model, either one or two manual reset circuit breakers are located on the instrument panel. Each has a button that pops out if the circuit breaker trips. For Models MT, MTEFI and MTLEFI, the 7 amp circuit breaker protects the safety circuits and GHS. For Model MTL, the 7 amp circuit breaker protects the warning lights/horn, safety circuits and GHS. For Model MTL, the 10 amp circuit breaker protects the headlights. For Model MT, the 30 amp circuit breaker (located near the battery) protects the instrument panel and headlights. For Model MTL, the two (2) 30 amp circuit breakers protect the instrument panel, starter solenoid and 'fan' control module. For Models MTEFI and MTLEFI, the 30 amp circuit breaker protects the instrument panel, headlights, and starter solenoid, and a 20 amp fuse protects the ECU.

STARTING THE ENGINE

1. Before attempting to start the engine, make sure the operator is in the seat, the Forward Speed Control is in NEUTRAL-PARK position, and the blade clutch and parking brake are DISENGAGED.

2. For Model MT and MTL, move the choke lever to the ON position and move the throttle 1/4 to 1/2 open (toward FAST). Turn the ignition switch to the START position to start the engine. Release the key to RUN position as soon as the engine starts.

NOTE: For starting in cold weather [below 40° F (4° C)], use the optional cold start lever to release the jackshaft drive belt and remove the hydrostatic transmission from the starter cranking load. After the engine has been started and warmed up, lower the lever to re-engage the jackshaft drive belt.

NOTE: For Model MT and MTL, the choke may not be required if the engine is warm.

IMPORTANT: If the engine fails to start after approximately 10 seconds of cranking, the engine should be checked before further cranking. Turn the key to the OFF position and allow a 60 second cool-down period between starting attempts. Failure to follow these guidelines can damage the starter motor and shorten battery life. Consult your Walker dealer or Authorized Kohler dealer for additional help.
Operating Instructions

3. After the engine starts, make sure the oil pressure light goes off. If not, stop the engine immediately and find the cause of the problem. Make sure the oil pressure light is off prior to engaging the mower blades and beginning operation.

4. For Model MT and MTL, gradually move the choke to the OFF position, keeping enough choke on to allow the engine to run smoothly as it warms up. As soon as possible, move the choke to the OFF position.

IMPORTANT: For Model MT and MTL, make sure the choke is in the OFF position during normal engine operation; running with the choke in the ON position CAN damage the engine.

ADJUSTING GROUND SPEED AND STEERING

IMPORTANT: If the DSD52 or DSD62 Mower deck is installed on the tractor, make sure the dolly wheel is retracted BEFORE moving.

<table>
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<tr>
<th>CAUTION</th>
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Learn to START, STOP, and MANEUVER the mower in a large, open area.

If the operator has not operated a machine with LEVER STEERING OR DUAL HYDROSTATIC TRANSMISSIONS, steering and ground operation should be learned and practiced until the operator is completely comfortable handling the machine BEFORE ATTEMPTING TO MOW.

<table>
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<tr>
<th>DANGER</th>
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Keep feet on footrests at all times when the machine is moving. Never operate the tractor without a deck or implement installed.

1. Move the FSC out of NEUTRAL-PARK position to the desired forward speed. DO NOT hold forward on steering levers. It is not necessary to hold the FSC lever in position since a friction lock maintains the selected lever position (and forward travel speed).

<table>
<thead>
<tr>
<th>CAUTION</th>
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A safety interlock switch (seat switch) will cause the engine to stop if the FSC is out of the NEUTRAL-PARK position and the operator is not in the seat. The function of this switch should be checked by the operator raising off the seat with the tractor moving forward (allow 1 to 1-1/2 seconds off the seat for the time delay function); the engine should stop. If the safety system is not working, it should be repaired or replaced before operating the mower. DO NOT disconnect the safety switches; they are for the operator’s protection.

NOTE: If the FSC lever will not stay in the selected position, the friction lock needs to be adjusted. Contact your Walker dealer.

2. Steer by pulling the lever on the side of desired direction of turn, e.g., pull the LH lever to turn left. To minimize the possibility of overcontrol, use only one hand on both steering levers.
Beginning Recommendations are:

- Learn operation of the mower in an open area away from buildings, fences, and obstructions. Learn operation on flat ground BEFORE operating on slopes.

- Start maneuvering the mower with SLOW engine speed and SLOW Forward Speed Control setting until familiar with all operating characteristics.

- Remember it is not necessary to hold the steering levers forward (a unique Walker feature); always PULL on the levers for steering or for reverse motion of the mower.

- Learn to operate the mower with your left hand on the steering levers and right hand on Forward Speed Control. The use of two hands on the steering levers tends to cause overcontrol.

- Learn to operate the steering levers with smooth action. Jerky movements are hard on the transmission and lawn. For sharp turns, do not allow the inside wheel to stop and twist on the grass. Pull the steering lever controlling the inside wheel into reverse for a smooth “rolling” turn (one wheel rolling forward while the other rolls backward).

- Practice maneuvering the mower until you can make it go exactly where you are aiming.

- Remember, for an emergency stop, or in case of loss of control, machine movement can always be stopped quickly by pulling the Forward Speed Control into the NEUTRAL-PARK position.

3. Reverse direction of the mower by pulling both levers backward.

   **NOTE:** Smooth action on the steering levers will produce smooth mower operation. Remember to keep the engine and ground speed slow until learning the control response.

4. The FSC may be adjusted forward for faster ground speed and backward for slower ground speed. When mowing, ground speed should be adjusted to match the load on the cutter blades, i.e., as the engine pulls down in heavy cutting, pull back on the FSC lever to reduce ground speed. Adjusting ground speed helps maintain a balance between engine power and blade speed for high-quality cutting action.

5. Stop ground travel by pulling both steering levers backward to the NEUTRAL position (tractor not moving) and then moving the FSC lever to the NEUTRAL-PARK position.

   **NOTE:** If the tractor creeps forward or backward with the FSC lever in the NEUTRAL-PARK position, the transmission control needs to be adjusted. Contact your Walker dealer.
ENGAGING THE MOWER

1. Set the engine throttle at about 1/3 speed. **Do not attempt to engage the blade clutch at high engine speeds.** This will drastically shorten drive belt life. Use only moderate engine speed when engaging the blade clutch.

2. Pull the blade clutch lever **SLOWLY** up to engage the mower blades.

---

**CAUTION**

A safety interlock switch (seat switch) will cause the engine to stop if the blade clutch is engaged and the operator is not in the seat. The function of this switch should be checked by the operator raising off the seat and engaging the blade clutch; the engine should stop. If the switch is not working, it should be repaired or replaced before operating the mower. **DO NOT** disconnect the safety switches; they are for the operator’s protection.

**IMPORTANT:** **DO NOT** engage the blade clutch when transporting the mower across drives, sidewalks, loose materials, etc. **DO NOT** engage the blade clutch with the PTO shaft disconnected (the mower deck removed from tractor).

---

**CAUTION**

If the cutting blades strike a stationary object while mowing, stop the mower immediately, disconnect the spark plug wires, lift the deck, and inspect the deck and blades thoroughly for damage. Make sure that the blade timing has not been disturbed (the blades should be at 90 degrees to each other). Refer to REPLACING/REPAIRING the Blade Overload Shear Bolts in Maintenance Instructions if blades are out of time. Also, make sure the blade retaining nuts are torqued to 60 ft-lb (81.3 N·m).
Operating Instructions

STOPPING THE MACHINE

1. Pull the steering levers to the NEUTRAL position and then move the FSC lever backward to the NEUTRAL-PARK position.

2. Slow the engine to a fast idle; put the throttle in the 1/2 throttle position.

3. Disengage the blade clutch.

   IMPORTANT: DO NOT disengage the blade clutch with high engine speed (above 1/2 throttle) since the brake action on the blade drive will cause premature wear of the brake band.

4. Turn the ignition switch OFF. When stopping the engine, do not reduce the throttle below 1/2 speed. Since the engine is equipped with a shutdown solenoid, stopping at low idle may cause engine run-on or backfiring.

   WARNING

   A brake stops the cutter blades (and blower on GHS equipped models) from free-wheeling within five (5) seconds after disengaging the clutch. If the brake system malfunctions and the blades do not stop within five (5) seconds, the brake should be adjusted or repaired before operating the mower. Contact your Walker dealer.

5. Engage the parking brake. Also, engaging the parking brake is recommended when stopping or parking the machine in a confined space with little tolerance for movement.

   WARNING

   Remove the key from the ignition switch when leaving the mower unattended. This will prevent children and inexperienced operators from starting the engine.

   IMPORTANT: The hydrostatic transmissions lock to prevent the mower from rolling freely with the engine stopped. However, if the mower is parked on a slope, it is necessary to ENGAGE the parking BRAKE to prevent the mower from creeping. This is due to a small amount of slippage in the hydrostatic transmissions, especially when transmission fluid is warm.

   WARNING

   In case either of the transmission drive belts break during operation, and if the machine is on a slope, the machine will freewheel down the slope. To maintain control, immediately (1) Release the steering levers and simultaneously (2) Move the FSC to the NEUTRAL-PARK position. When the machine is stopped or moving slowly, engage the parking brake.

   NOTE: The emergency stop procedure is exactly the same procedure as used to normally stop and park the machine.
Operating Instructions

ADJUSTING CUTTING HEIGHT

**WARNING**

The engine must be stopped before adjusting cutting height. Disengage the blade clutch (PTO), stop the engine, and remove the ignition key. Wait for all movement to stop before getting off the seat.

Cutting height is adjusted by positioning the four retainer hitch pins in a series of seven vertical holes on the deck support pins. Lift handles have been provided on each end of the deck to assist in raising the deck while positioning the hitch pins. Cutting heights range from 1 in. (25 mm) [top holes] to 4 in. (102 mm) [bottom holes] in 1/2 in. (13 mm) increments.

1. Raise the front body.
2. Lift the transmission lockout lever on both the RH and LH transmissions and secure into place with the locking cam.

3. The mower will “freewheel” with the levers in the **LOCKOUT** position. The levers must be in the highest position to completely unlock the transmissions.

4. After moving the mower, release the locking cam, placing the lever **DOWN** in the normal **OPERATING** position. Make sure the transmission lockout plunger on the side of the transmission case (activated by the lockout lever) is **completely released**, otherwise the transmission operation will be erratic.

**TRANSMISSION LOCKOUT**

**IMPORTANT:** **DO NOT TOW** the tractor with the transmission lockout engaged. Towing can produce excessive internal pressure and damage the transmission.

To move the mower with the engine **NOT** running (dead battery, maintenance, etc.), the hydrostatic transmissions are unlocked (released).

1. Raise the front body.
2. Lift the transmission lockout lever on both the RH and LH transmissions and secure into place with the locking cam.
RECOMMENDATIONS FOR MOWING

**DANGER**

Do not mow around overhanging tree branches or bushes at the same height as the operator’s torso and head where inadvertent contact may cause injury.

Avoid Low Hanging Branches

**IMPORTANT:** Operate the engine at full throttle when mowing, to allow the engine to produce full horsepower and to increase efficiency of the engine cooling system.

- Keep the mower deck and discharge chute clean.
- Mow with sharp blades. A dull blade tears the grass (resulting in poor lawn appearance) and uses extra power (slowing the mowing speed).
- It is preferable to cut grass when it is dry and not too tall. Mow frequently and do not cut grass too short. (For best appearance, cut off 1/3 or less of existing grass height.)

- When mowing, operate the engine at or near full throttle for the best cutting action and performance of the grass handling system (GHS). Mowing with a lower engine RPM causes the mowing blade to not cut clean and tear the grass. The engine is designed to be operated at full speed.

- When mowing in adverse conditions (tall and/or wet grass), mow the grass twice. Raise the mower to the highest setting - 4 in. (102 mm) - for the first pass and then make a second pass cutting to the desired height.

- Use a slow setting on the FSC for trimming operations.

- Make sure the mower is leveled properly for a smooth cut. Refer to Deck Leveling in Assembly Instructions.

- Use an alternating stripe mowing pattern for best appearance and vary the direction of the stripe each time the grass is mowed to avoid wear patterns in the grass.

- Avoid damage to the grass by slipping and skidding of the drive tires. Use smooth control movements of the steering levers since the hydrostatic transmissions are “power boosted controls” and jerking the levers can easily slip the tires. For sharp turns, do not allow the inside wheel to stop and twist on grass; pull inside steering lever into reverse for a smooth “rolling” turn (one wheel rolling forward while the other rolls backward).
• When using a side discharge mower deck, the side discharge shield must not be removed and must be kept in the lowest possible position to deflect grass clippings and thrown objects downward. Orient the side discharge away from sidewalks or streets to minimize cleanup of clippings. When mowing close to obstacles, orient the side discharge away from obstacles to reduce the chance of damage to property by thrown objects.

Side Discharge Shield in Lowest Position

• When operating on a slope, reduce speed and use caution to start, stop, and maneuver. Avoid sharp turns or sudden changes in direction. The maximum recommended side slope operating angle is 20 degrees or 33% grade.

Maximum Recommended Side Slope - Do Not Operate on Steep Slopes

DANGER

Do not mow or dump grass within 5 feet (1.5 meters) of an embankment or retaining wall with drop off.
RECOMMENDATIONS FOR TILT-UP DECK OPERATION/TRANSPORT

To avoid potential deck and/or tractor damage while using the tilt-up deck, the following recommendations are offered:

- **Do not move the tractor** with the deck in the tilt-up position since both the roller wheels (on the back of the deck) and the GHS discharge chute may be damaged by moving the tractor. The tilt-up configuration should only be used when the tractor is parked.

- The tractor body should never be tilted forward with the deck in the tilt-up position. This can cause the deck to unhook from the tractor and fall with considerable force, potentially causing deck or tractor damage and/or bodily injury.

- When transporting a tractor with the deck in the tilt-up position (on a truck or trailer), the deck should be secured to the vehicle with a strap or rope (stop vertical movement). This will prevent the deck from bouncing on the rear roller wheels (causing breakage). This will also prevent the deck from unhooking from the tractor and falling, potentially causing deck or tractor damage. Damage to other items parked in front of the deck may also occur.
Operating Instructions

GRASS HANDLING SYSTEM (GHS)
GHS Model Only

GHS Flow and Components

PTO and Blade
Gear Drive

PTO Clutch
Shear Pin
Shear Bolt
Rear Discharge Mower Deck

Powerfil® Delivery Spout

Actuator Rod
“Full” Signal Horn

Grass-Pak® Vane Switch

Grass Catcher

Catcher Door Spring
Catcher Door

Exhaust Screen (Removable)

Body Chute Assembly
Blower
Deck Discharge Chute

Dump Handle

Powerfil® Drive Motor

Grass Catcher

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Operating Instructions

General Information

The Grass Handling System (GHS) consists of a rear discharge mower deck connected to a 10.5 in. (27 cm) blower and a rear mounted grass catcher with 10.0 bushel (352 liters) capacity or optional 7.0 bushel (246 liters) capacity. The GHS blower operates any time the mower blade clutch is engaged and moves grass through the rear discharge deck chute into the grass catcher. Blower airflow is exhausted out the back of the grass catcher, through a filtering screen. When the grass catcher is full and needs to be emptied, a "full" signal horn alerts the operator. When the "full" signal horn sounds, it is important to stop mowing to prevent overfilling and clogging of the blower system.

IMPORTANT: Normally, the GHS blower operates with no maintenance or cleaning required. However, under certain operating conditions, the inside of the blower housing may accumulate a deposit of dirt, causing wear and binding of the blower wheel. Normally, dirt buildup occurs when mowing a combination of dirty and damp grass, especially in the springtime. When operating in these conditions, check the blower wheel frequently for binding and clean the blower housing as required. Refer to CLEANING the GHS Blower in Maintenance Instructions.

NOTE: In Autumn, when using the GHS mower to vacuum leaves, it is recommended to raise the front of the mower deck 2 to 3 notches [1 to 1-1/2 in. (25 to 38 mm)] higher than the rear. This will avoid "bulldozing" leaves, particularly when the leaves are piled in a thick layer. To make this adjustment, the hitch pins in the two (2) front deck support pins are repositioned 2 to 3 notches higher while leaving the rear pins in their original position.

NOTE: When a side discharge or mulching mower deck is installed on the GHS model, a blower intake cover should be installed in the blower intake tube. This cover "unloads" the blower and seals the intake to effectively eliminate power loss and blower noise when the blower is not being used.

NOTE: An alternative to using the blower intake cover when a side discharge or mulching deck is installed on a GHS model is the blower lockout kit (P/N 7541). The blower lockout kit releases tension on the blower drive belt and does not require the blower intake cover.

DANGER

NEVER operate the GHS catcher with the back door open. Objects may be thrown out the back of the catcher with sufficient force to cause serious injury to bystanders or property damage. NOTE: For non-catching operation, the "No-Catch" Deflector is an available accessory item.

CAUTION

NEVER leave grass clippings in the grass catcher after mowing. Damp clippings generate heat as they decompose. This MAY cause spontaneous combustion.
Clogging Checklist

In case of clogging, there will be a distinct change in the sound of the blower, i.e., the blower sound will stop. Also, the mower deck will begin to leave a trail of grass clippings. When this occurs, stop the engine, disconnect the spark plug wires, and make sure all movement has stopped before attempting to unclog.

Normally, any clogging will first develop at the back of the mower deck in the discharge opening into the blower chute. Clogging at this point does not indicate a particular problem in this part of the system, but is a symptom of something restricting the flow of material throughout the entire system. The following list of items should be checked if a pattern of clogging begins to develop. All of these items are capable of causing clogging at the back of the deck.

- Check to see if the RH and LH mower blades are installed for the correct rotation - install blades so the cutting edges move toward each other.
- Check the amount of flat section remaining at blade tip. This is the area that is ground away (removed) when the blades are sharpened. If too much of the flat section is removed, the "air lift" performance or "shovel" effect of the blade deteriorates to the point that discharge of grass clippings into the blower chute is marginal. Replace cutter blades if less than 3/4 in. (19 mm) flat section remains at the blade tip.
- Check that the interior of the deck housing and baffling is reasonably clean and free of grass and dirt buildup. While some degree of material buildup can be tolerated, a point is finally reached where the flow of air and grass clippings is restricted.

NOTE: One condition that quickly causes a buildup of material in the deck housing is mowing grass and/or weeds which are "juicy." The material collects under the deck with sticky, green juice. Clover and weeds are especially a problem. The mower deck will need to be cleaned frequently when operating in these conditions.

- Check the deck cutting height setting. When working in thick, tall grass, lower deck settings [1 to 2 in. (25 to 51 mm) cutting heights] tend to restrict airflow from moving into and under the deck. Raising the deck cutting height will significantly increase airflow and reduce clogging when working in thick, tall grass.
- Check that the interior of the chute connecting the mower deck to the blower for smoothness and freedom from obstruction.
- Check the blower wheel for bent blades and excessive clearance between the blade tip and the blower housing. A clearance greater than 1/8 in. (3 mm) will cause a significant loss of blower performance.
- Check the blower discharge chute into the grass catcher for smoothness and freedom from obstruction.
- Check the elbow inside the grass catcher for a buildup of material in the radius of the elbow. In certain conditions (damp/dirty grass) a considerable "clump" of material can accumulate at this point, greatly restricting material and airflow.

DANGER

NEVER place hands under the mower deck or in the GHS blower discharge chute. Use a stick or similar tool to remove any clogged material.

Blade Rotation for GHS Mower Deck
(View from Underneath)
Check that the openings in the removable air exhaust screen in the grass catcher are not plugged. If the screen is clogged, refer to Cleaning the GHS Exhaust Screen in this section.

**NOTE:** An optional exhaust screen with larger holes (3/4") is available for use when mowing in wet grass; the screen provides less airflow restriction and more clog resistance (use standard screen in dry conditions to avoid excessive material blowing out of the catcher).

Remember, anything that restricts airflow or material flow along the entire path from the mower deck to the grass catcher can cause clogging.

### Using the Tilt-Up Deck

Refer to **CLEANING of Grass Buildup in Mower Housing** in **Maintenance Instructions**.

### Using the GHS Catcher

*Powerfil®*

The GHS catcher has an oscillating grass delivery spout (**POWERFIL®**) which is designed to spread grass clippings throughout the interior of the grass catcher (even when mowing wet, heavy grass). The oscillating action may be checked by turning the ignition switch to the **ON** position and moving the blade clutch to the **ENGAGED** position. The spout should oscillate approximately 25 cycles per minute.

**NOTE:** If the grass spout fails to oscillate, the clutch switch should be checked for function (the switch closure is adjustable).

**“Full” Signal Horn**

The GHS catcher has a **“full” signal horn** to alert the operator to **dump the catcher when it is full** (to prevent overfilling and clogging). The “full” signal horn is activated by a vane switch (Grass-Pak® switch) mounted on the grass delivery spout. Oscillating action of the spout triggers the vane switch as grass begins to fill in around the spout when the catcher is almost full.

The “full” signal function may be checked by turning the ignition switch **ON**, engaging the blade clutch (engine not running), opening the catcher back door, and triggering the Grass-Pak® vane by hand as it oscillates. The horn should sound as the switch is moved in both directions.

---

**WARNING**

DO NOT test the Grass-Pak® switch with the engine running. Projectiles may be thrown out of the grass delivery spout, and **COULD** cause serious injury.

The “full” signal horn is designed to operate (sound) when the grass catcher is **almost full**. The timing of the signal is adjustable by changing the position of the vane on the Grass-Pak® switch. If the signal is coming on too soon (catcher not completely full) or too late (grass clogging in catcher spout and delivery chute), refer to **ADJUSTMENTS for GHS Signal Horn Adjustment** in **Maintenance Instructions**.

**NOTE:** The horn signal should be adjusted to sound **BEFORE the catcher is completely full** to give the operator time to react and stop mowing. An indication the horn signal is coming on too late (delayed too much) is if grass clippings are falling out of the grass catcher delivery chute when the catcher is dumped.

**Cleaning the GHS Exhaust Screen**

To remove the grass catcher screen for cleaning, open the catcher door, push forward and pull down on the grass catcher screen knobs (on either side of the screen), and slide the screen out. Use a high pressure washer or water spray and brush to clean the screen.

Keeping the catcher exhaust screen clean and open is essential to good performance of the catching system. In some mowing conditions, e.g., wet and dirty, it will be necessary to clean the screen frequently to avoid clogging the mower deck, blower, and chutes due to airflow restriction.
Operating Instructions

Dumping the Catcher

<table>
<thead>
<tr>
<th>DANGER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not mow or dump grass within 5 feet (1.5 meters) of an embankment or retaining wall with drop off.</td>
</tr>
</tbody>
</table>

For dumping, the catcher either tailgate dumps into a disposal area or dumps into the optional dump bag. The dump bag is a reusable nylon fabric bag designed to conveniently move grass clippings from the catcher to a remote disposal area or container.

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use leg muscles and firm footing when lifting the catcher to dump; avoid bending at the waist and using back muscles to avoid back injury.</td>
</tr>
</tbody>
</table>

Tailgate Dumping

1. Open the back door by lifting on the door handle.

   **NOTE:** When using the optional 7.0 bushel catcher, a safety latch locks the door open in the fully opened position while the catcher is being dumped to prevent accidental door closure.

2. Tilt the catcher back to dump by lifting on the catcher lift handle on the lower front corner of the catcher.

3. Lower the catcher smoothly down to the normal operating position. **DO NOT allow the catcher to drop down - the gas spring, that holds the catcher in the raised position, is not a shock absorber for lowering the catcher.**

4. Close the door by holding the door handle. The door will close smoothly with the assistance of the gas springs. If the dampening springs are not functioning properly, they should be replaced to prevent the door from slamming closed and possibly causing a pinch point. (When using the optional 7.0 bushel catcher, close the door by holding the door handle with the left hand and releasing the safety latch on the door hinge mechanism with the right hand. The safety latch is released by pressing in on the top of the latch.)

Using the Dump Bag

1. Open the back door by lifting on the door handle.

   **NOTE:** When using the optional 7.0 bushel catcher, a safety latch locks the door open in the fully opened position while the catcher is being dumped to prevent accidental door closure.

2. Orient the dump bag with one (or two) of the handle straps on the bag opening facing up.

   **Positioning Dump Bag on Catcher**
3. Hook the bottom of the bag over the rear bumper while lifting on the handle strap(s).

4. Tilt the catcher back to dump into the bag by lifting on the catcher lift handle on the lower front corner of the catcher with the one hand while continuing to hold up on the bag strap(s) with the other hand. Refer to photos for positioning the bag and dumping.

6. Close the door by holding the door handle. The door will close smoothly with the assistance of the gas springs. If the dampening springs are not functioning properly, they should be replaced to prevent the door from slamming closed and possibly causing a pinch point. (When using the optional 7.0 bushel catcher, close the door by holding the door handle with the left hand and releasing the safety latch on the door hinge mechanism with the right hand. The safety latch is released by pressing in on the top of the latch.)

**Power Dump Option**

When equipped with the optional power dump system, the operator dumps the catcher while sitting in the seat. A toggle switch operating a power ram is used to raise and lower the catcher. The back door automatically opens and closes during the dump cycle.

Hold the toggle switch UP or DOWN to RAISE or LOWER the catcher. When the catcher reaches the full raised or lowered position, the power ram clutch will make a ratcheting sound. Release the toggle switch as soon as this sound is heard. **DO NOT operate the ram with the clutch ratcheting for an extended time** as this will cause extra wear on the clutch mechanism.

---

**CAUTION**

The operator should be in the seat and bystanders stay clear when the power dump is operating. The power dump is used ONLY for tailgate dumping. Do not attempt to use the optional dump bag or any other bag with the power dump.

**NOTE:** If grass tends to hang up in the catcher after raising the catcher with the power dump, "jiggle" the steering levers and make the tractor bounce a little to unstick the grass and make it slide out of the catcher.

**NOTE:** With the power dump mechanism in the normal operating position (catcher down), the catcher can be manually raised for access to the engine and the catcher can be manually dumped.
Operating Instructions

Hi-Dump® Option

When equipped with the optional Hi-Dump® system, the operator raises and dumps the catcher while sitting in the seat. Two toggle switches operate independent hydraulic cylinders to raise and lower the catcher. The back door automatically opens and closes during the dump cycle.

NOTE: The ignition switch must be in the ON position for the Hi-Dump® system to operate.

NOTE: If grass tends to hang up in the catcher after raising the catcher with the Hi-Dump®, “jiggle” the steering levers and make the tractor bounce a little to unstick the grass and make it slide out of the catcher.

NOTE: With the Hi-Dump® mechanism in the normal operating position (catcher down), the catcher cannot be manually raised. In the case of a dead battery, use the auxiliary power terminals to charge/jump the battery to operate the Hi-Dump®.

CAUTION

The operator should be in the seat with the machine in the NEUTRAL-PARK Position and the parking brake engaged and bystanders stay clear when the Hi-Dump® is operating. Do not attempt to use the optional dump bag or any other bag with the Hi-Dump®.

Lift/Dump Control Switches and Auxiliary Power Terminals

Hold the Lift toggle switch UP or DOWN to RAISE or LOWER the catcher.
### Maintenance Instructions

**CAUTION**

Maintenance procedures requiring special training or tools should be performed by a trained technician.

---

**MAINTENANCE SCHEDULE CHART - RECOMMENDED SERVICE INTERVALS - MODEL MT, MTL, MTEFI, MTELEFI**

<table>
<thead>
<tr>
<th>Service Item</th>
<th>Daily</th>
<th>25 Hours</th>
<th>100 Hours</th>
<th>200 Hours</th>
<th>Yearly</th>
<th>Every 2 Years</th>
<th>Ref. Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check Engine Crankcase Oil Level</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>59</td>
</tr>
<tr>
<td>Check/Clean Engine Air Cooling System*</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>68</td>
</tr>
<tr>
<td>Check Coolant Level, Radiator/Overflow Tank (MTL)</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>72</td>
</tr>
<tr>
<td>Clean Radiator Screen and Cooling Fins* (MTL)</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td>69</td>
</tr>
<tr>
<td>Check Security of Air Filtration Components</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
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<td>72</td>
</tr>
<tr>
<td>Check Air Filter Restriction Gauge</td>
<td>x</td>
<td></td>
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<td>67</td>
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<tr>
<td>Check Grass Buildup Under Deck</td>
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<td>70</td>
</tr>
<tr>
<td>Clean GHS Exhaust Screen*</td>
<td>x</td>
<td></td>
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<td></td>
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<td>51</td>
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<tr>
<td>Clean GHS Blower*</td>
<td>x</td>
<td></td>
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</tr>
<tr>
<td>Service Mower Blades</td>
<td>x</td>
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<td>74</td>
</tr>
<tr>
<td>Check Functions of Instrument Panel and Warning Horn</td>
<td>x</td>
<td></td>
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<tr>
<td>Lubricate Grease Fittings and Oil Points*</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Check PTO Gearbox Oil Level**</td>
<td>x</td>
<td></td>
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<td>62</td>
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<tr>
<td>Check Battery Electrolyte Level</td>
<td>x</td>
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<td>73</td>
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<tr>
<td>Check Hydrostatic Transmission Fluid **</td>
<td>x</td>
<td></td>
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<td>63</td>
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<tr>
<td>Check Tire Pressure</td>
<td>x</td>
<td></td>
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<td>74</td>
</tr>
<tr>
<td>Check Drive Belts (Jackshaft, Engine PTO, GHS Blower, Ground Drive)</td>
<td>x</td>
<td></td>
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<tr>
<td>Check Gearbox Oil Seals</td>
<td>x</td>
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<td>Check Safety Switch System</td>
<td>x</td>
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<tr>
<td>Check Turbine Precleaner*</td>
<td>x</td>
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<td>Check Blade Brake Action</td>
<td>x</td>
<td></td>
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<tr>
<td>Check Air Filter Element***</td>
<td>x</td>
<td></td>
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<td>67</td>
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<tr>
<td>Check Oil Level in Gear Axle</td>
<td>x</td>
<td></td>
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<td>62</td>
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<tr>
<td>Clean Hydrostatic Transmission Cooling Fins</td>
<td>x</td>
<td></td>
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<td></td>
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<td>71</td>
</tr>
<tr>
<td>Clean Engine Cooling Fins (MT, MTEFI)</td>
<td>x</td>
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<tr>
<td>Change Engine Crankcase Oil (MT, MTEFI)~</td>
<td>x</td>
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<tr>
<td>Check Wheel Bolt Torque (75 to 85 ft-lbs)</td>
<td>x</td>
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<td>74</td>
</tr>
<tr>
<td>Change Engine Oil Filter (MT, MTEFI)~</td>
<td>x</td>
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<td>60</td>
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<tr>
<td>Change Engine Crankcase Oil (MTL)~</td>
<td>x</td>
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<tr>
<td>Change Engine Oil Filter (MTL)~</td>
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<tr>
<td>Check Radiator Hoses and Clamps (MTL)</td>
<td>x</td>
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</tr>
<tr>
<td>Check/Regap Spark Plugs</td>
<td>x</td>
<td></td>
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<td></td>
<td></td>
<td>75</td>
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<tr>
<td>Replace Air Filter Element, Safety Filter, Vacuator™ Valve***</td>
<td>x</td>
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<td>67</td>
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<tr>
<td>Replace Fuel Filter</td>
<td>x</td>
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<tr>
<td>Flush Radiator and Change Coolant (MTL)</td>
<td>x</td>
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<td>70</td>
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<tr>
<td>Service Battery</td>
<td>x</td>
<td></td>
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<tr>
<td>Check FSC Friction Lock</td>
<td>x</td>
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<td>76</td>
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<tr>
<td>Service Solenoid Shift Starter</td>
<td>x</td>
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<td>△△△</td>
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<tr>
<td>Check PTO U-Joints for Wear/Looseness</td>
<td>x</td>
<td></td>
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<td></td>
<td>76</td>
</tr>
<tr>
<td>Check Fuel Lines and Clamps</td>
<td>x</td>
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<td></td>
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<td>75</td>
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<tr>
<td>Change Gear Axle Oil △△</td>
<td>x</td>
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<td>62</td>
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<tr>
<td>Change Hydrostatic Transmission Fluid △△</td>
<td>x</td>
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<td>△△△</td>
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<tr>
<td>Replace Radiator Hoses and Clamps (MTL)</td>
<td>x</td>
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<td>76</td>
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<tr>
<td>Replace Fuel Lines and Clamps</td>
<td>x</td>
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<td>75</td>
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<tr>
<td>Replace Ignition Wires</td>
<td>x</td>
<td></td>
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<td>75</td>
</tr>
</tbody>
</table>

* More often in extremely dusty or dirty conditions (refer to notes about air cleaner element in IMPORTANT TIPS FOR CARE OF KOHLER ENGINE)

** Change PTO gearbox oil after first 100 hours of operation (break-in period)

*** Air cleaner is remote mounted Donaldson Radialseal™ unit, replace filter every year

△ Change engine oil and filter after first 5 hours of operation of a new engine (break-in period)

△△ Change every 2 years or 1000 hours

△△△ See your Walker dealer for this service or refer to the Walker Service Manual

◊ Hydrostatic transmissions are sealed - DO NOT OPEN RESERVOIR CAPS - refer to Hydrostatic Transmission Fluid

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**IMPORTANT TIPS FOR CARE OF THE KOHLER ENGINE**

**Fuel System**
- Fuel must be clean - free from water, dirt, and organic material.
- Change fuel filter on a regular basis and when contamination is suspected or found in the fuel.
- On the Model MTEFI, the fuel system is pressurized. Do not attempt to service this fuel system. Contact your Walker dealer or authorized Kohler service dealer for work on the fuel system.

**Starting/Stopping**
- For starting in cold weather [below 40° F (4° C)], use the optional cold start lever to release the hydrostatic transmissions from the starter cranking load.
- Start engine with the throttle advanced off idle (1/4 to 1/2 throttle). This will aid starting, especially in cold weather.
- Keep the battery fully charged.
- Match crankcase oil viscosity to the ambient temperature, allowing the engine to crank faster and start easier.
- Use fast idle for stopping engine to avoid run-on or backfiring.

**Cooling System - MT, MTEFI**
- Keep engine air intake screen and cylinder head fins free of grass clippings, chaff, and dirt. Inspect intake screen and cooling fins for cleanliness and no damage.
- Periodically remove two access panels in the engine shroud to inspect and clean cylinder head cooling fins.
- Check performance of the cooling system by starting the engine, holding a hand adjacent to the cylinder head, and feeling the cooling airflow.

**Cooling System - MTL**
- Fill the cooling system with a pre-mixed solution of 50/50 antifreeze (ethylene glycol) and distilled water.
- **IMPORTANT:** Solution must be pre-mixed before putting it in the engine (adding pure antifreeze into the radiator may cause damage to the engine by causing overheating).
- Maintain proper fluid levels in the radiator and overflow tank.
- Operate the engine at full speed when mowing. This will allow the engine to produce full horsepower and move more cooling air through the radiator.

**Air Cleaner System**
- Use only Donaldson air cleaner elements. Aftermarket elements may not seal in the air cleaner housing, allowing dirt to enter the engine. Also, aftermarket filters often skimp on the filtration media and require more frequent replacement (see following instructions).
- Use the air flow restriction gauge to indicate the need to service the air filter.
- Do frequently check the **Turbine Precleaner** for free movement of the internal fan.
- **DO NOT overservice** or frequently “disturb” the **air filter**. A dirty air filter actually cleans better than a new one. Changing the air filter too often can actually reduce filter efficiency and increase the opportunity for traces of dust to enter the engine. Wait until the element really needs servicing as indicated by the air flow restriction gauge.
- When the air filter element is removed or replaced, make sure all dust is cleaned out of the **air cleaner housing and hose**. Use a damp cloth and wipe the interior of the canister and hose clean (a little dirt left here will be sucked into the engine and reduce engine life). When the filter is reinstalled, make sure the element is held tight and straight in the canister for proper seating and sealing.
- Periodically check the air intake hose for cuts, nicks, etc., and the hose clamps for tightness.

**DANGER**

Make sure to keep hands clear of exhaust pipe, muffler, and moving parts when checking airflow.
Oil

- Use only multi-viscosity oils as specified with the viscosity matching ambient temperatures for the engine operating conditions. This will aid starting in cold weather and assure proper lubrication in hot weather.

- Use only Kohler oil filters. Aftermarket filters may not seal properly and/or have the incorrect pressure relief valve for proper lubrication.

LUBRICATION

WARNING

DO NOT attempt to lubricate the machine with the engine running. Disengage the PTO clutch, shut off the machine, and remove the ignition key.

Proper lubrication is an important maintenance procedure. It reduces wear and makes the machine quieter and easier to operate.

Engine Oil

Engine Break-In Oil

No special break-in oil is required. The engine is serviced with 10W-30, Service Class SG oil from the factory. Change the oil after the initial engine break-in period of 5 hours. Thereafter, change oil after every 100 hours of operation (200 hour interval for MTL).

Checking Engine Crankcase Oil Level

Check the engine crankcase oil level before use and after each 8 hours of continuous operation.

IMPORTANT: The importance of checking and maintaining the proper crankcase oil level cannot be overemphasized. Check the oil level BEFORE EACH USE.

1. Park the mower on a level surface with the engine stopped. Also, make sure the engine is cool and oil has had time to drain into the sump [allow at least five (5) minutes after stopping the engine].

2. Before removing the dipstick, clean the area around the dipstick to keep any dirt or debris out of the engine.

3. Remove the dipstick, wipe off with a clean rag, then reinsert the dipstick into the tube and press all the way down.

4. Remove the dipstick again and check the oil level on the dipstick. The oil level should be within the “Operating Range” on the dipstick (between the “L” mark and the “F” mark).

IMPORTANT: DO NOT operate engine without a sufficient oil supply in the crankcase. DO NOT operate with the oil level below the “L” mark or above the “F” mark on the dipstick.

5. If additional oil is needed, refer to Specifications for proper crankcase lubricant. Fill up to, but not above, the “F” mark on the dipstick.

IMPORTANT: DO NOT overfill the crankcase (oil above “F” mark) as this CAN result in engine overheating, loss of power, and possible engine damage.
Changing Engine Crankcase Oil/Oil Filter

For Model MT and MTEFI, change the engine crankcase oil after every 100 hours of operation and replace the oil filter every other oil change (every 200 hours of operation).

For Model MTL, change the engine crankcase oil after every 200 hours of operation and replace the oil filter at the same time.

1. Park the mower on a level surface with the engine stopped. The engine oil should be warm before draining. If not warm from operation, start the engine and run a few minutes to warm the oil.

2. Remove the dipstick and the oil drain plug and drain the oil into a suitable container. Be sure to allow ample time for complete drainage.

3. Before removing the oil filter, clean the area around the filter to keep dirt and debris out of the engine.

4. Remove the old oil filter and wipe off the filter mounting surface on the engine.

5. Apply a thin coating of clean oil to the rubber gasket on the replacement oil filter.

IMPORTANT: Use ONLY oil filters from the engine manufacturer (Kohler 12-050-01). Aftermarket oil filters may not seal properly and/or may not have the correct pressure relief valve for proper lubrication.

6. Install the new oil filter on the engine. Turn the filter clockwise until the rubber gasket contacts the sealing surface, then tighten an additional 1/2 turn.

7. Reinstall the drain plug. Make sure it is tightened to 10 ft-lb (13.6 N·m).

8. Fill the crankcase through the oil filler tube (dipstick opening) with new, clean oil. Use only crankcase lubricants recommended by the engine manufacturer. Refer to Specifications in this manual or the engine owner’s manual. Use the recommended oil viscosity for the expected ambient temperature. Oil with the correct viscosity will aid starting in cold weather and assure proper lubrication in hot weather. Fill up to, but not above, the “F” mark on the dipstick. Crankcase capacity is 1.85 quarts (1.75 liters) plus 1/2 pint (0.24 liters) for the new oil filter.

IMPORTANT: Check the dipstick reading before adding the last 1/2 pint of oil and fill only to the “F” mark. DO NOT overfill the crankcase (oil above “F” mark) as this CAN result in engine overheating, loss of power, and possible engine damage.

9. Start the engine and check for oil leaks around the oil filter. Stop the engine, recheck the oil level, and add oil if necessary. (When the engine is first operated with a new oil filter, the oil level drops slightly as the filter is filled with oil.)

Mower Deck Gearbox Lubrication

NOTE: These instructions apply to all mower decks with gear-driven blades. Refer to DSD52 or DSD62 Mower Deck Lubrication in this section for the DSD52 or DSD62 deck with belt-driven blades.

The mower deck gearboxes (tee gearbox and blade drive gearboxes) are connected as a unitized assembly, and oil flows freely between them. The gearboxes are permanently lubricated (oil filled) and sealed requiring no scheduled lubrication. However, the gearbox oil seals should be checked every 25 hours for indication of an oil leak; particularly the lower seals on the blade drive gearboxes should be inspected, since they operate in a dirty environment. If an oil leak is noted, replace the oil seal and relubricate the gearbox assembly as follows:

1. Remove gearbox cover (footrest). Deck orientation should be the normal operating position.
LUBRICATION

Mower Deck Gearboxes
(Shown with Gearbox Cover Removed for Clarity)

2. Clean the area around the individual gearbox cover plates to prevent contaminants from entering the gearcase.

3. Remove the screws securing the cover plates on the blade drive gearboxes.

4. Check the level of lubricant in the gearboxes. If the lubricant is low, add SAE E.P. (Extreme Pressure) 80W-90 (API GL-5) gear lube until the oil level is up to (submerges) the horizontal shaft in the gearbox (shaft parallel to cover plate).

NOTE: In case the gearboxes are completely drained of oil, approximately 5 fl. oz. (15 cl) of oil per gearbox is required to refill the gear drive assembly.

NOTE: Since the gearboxes are connected as a unit by connector tubes, it is necessary to add oil slowly. Allow a few minutes after adding oil for the oil to flow throughout the assembly and the oil level to stabilize before reassembly.

IMPORTANT: DO NOT overfill the deck gearboxes. The gearbox assembly is not vented, and overfilling with oil will cause excessive pressure and result in oil leaks.

5. Check condition of the cover gasket and replace if worn or damaged. Reinstall gearbox cover plates; torque screws to 24 in-lb (2.7 N·m).

DSD52 or DSD62 Mower Deck Lubrication

There are several special lubrication requirements for the DSD52 or DSD62 mower deck in addition to the requirements detailed in the Chassis and Deck Lubrication illustration. Lubricate the locations shown in the Gearbox, Dolly Wheel, and U-Joint Lubrication photo and check and maintain oil in the belt drive gearbox.

1. Check the oil level in the belt drive gearbox every 100 hours (or sooner if a visible oil leak has developed). With the deck in the normal operating position, remove the level plug in the side of the gearcase. Add SAE E.P. (Extreme Pressure) 80W-90 (API GL-5) gear lube to maintain the oil level to the plug. If the oil level is low, check the gearbox for any indication of an oil leak. If an oil leak is noted, the gearbox will need to be removed and rebuilt.

2. Lubricate the dolly wheel pivot every 25 hours with general purpose grease.

3. Lubricate the U-Joint in the drive shaft every 8 hours with SAE general purpose lithium or molybdenum base grease.

Gearbox, Dolly Wheel, and U-Joint Lubrication
Tractor PTO Gearbox Lubrication

Checking Gearbox Oil Level

Check the gearbox oil level every 25 hours, and if necessary, add oil [SAE E.P. (Extreme Pressure) 80W-90 (API GL-5) gear lube] to maintain oil level to the FULL mark on the dipstick.

IMPORTANT: DO NOT overfill the PTO gearbox to avoid oil leakage out of the dipstick standpipe.

If the oil level is low, check the gearbox for any indication of an oil leak. If an oil leak is noted, the gearbox will need to be removed and rebuilt.

Changing Gearbox Oil

The tractor PTO gearbox is oil filled. No scheduled oil change is required. However, changing the oil after the first 100 hour break-in period will extend gearbox life and is recommended.

1. Remove the drain plug in the bottom of the gearcase, drain the oil, and reinstall the plug.
2. Refill the gearbox through the dipstick standpipe using 7 to 8 fl. oz. (21 to 24 cl) of SAE E.P. (Extreme Pressure) 80W-90 (API GL-5) gear lube. Remove plug in top of gearcase to vent air when refilling.
3. Check that the oil level is at the FULL mark on the dipstick. DO NOT overfill.

Gear Axle Lubrication

- The gear axle oil lubrication is SAE E.P. 80W-90 (API GL-5) gear lube.
- Check the axle oil level after every 100 hours of operation by removing the oil level plug. If additional oil is needed, remove the breather vent on top of axle and fill until oil is at the level plug.
- Change axle oil every 1000 hours or two (2) years.
Hydrostatic Transmission Fluid

Checking Hydrostatic Transmission Fluid Level

The hydrostatic transmissions are sealed units and do not need to be opened to check the fluid level. Hydrostatic fluid level should be checked every 25 hours of machine operation. It is preferable to check the fluid when the fluid is cold. Check fluid levels as follows:

IMPORTANT: Removing or breaking the seal on the hydrostatic reservoir cap within the first 1000 hours will VOID THE TRANSMISSION WARRANTY.

1. Park the mower on a level surface. Stop the engine and wipe dirt and contaminants from around the base of the reservoir to better see the COLD mark.

2. The level of the oil can be seen through the side of the opaque reservoir (DO NOT REMOVE RESERVOIR CAP); using a light next to the reservoir will help make the level more visible.

3. The reservoir has a fluid level COLD mark. The reservoir oil level should ALWAYS be at or slightly above the COLD mark.

4. If the fluid is below the COLD mark (or the transmission is not performing properly, contact your local dealer. Attempting to add fluid or service the transmission may VOID THE TRANSMISSION WARRANTY.

Grease Fitting and Oil Point Lubrication

Lubricate the grease fittings and oil points after every 25 hours of operation. Lubricate more often when operating in dusty or dirty conditions. Use SAE general purpose lithium or molybdenum base grease for grease fittings and light machine oil (SAE 10) to lubricate oil points. Lubricate the locations shown in the Chassis and Deck Lubrication Points illustration.

NOTE: PTO universal joints (on the deck and tractor) require routine lubrication after every 8 hours of running time. Remove tractor PTO quick disconnect tube assembly for easy access to grease fittings.

NOTE: The best way to lubricate the PTO tube half of the universal joint assembly is to remove it from the tractor. See instructions for removing and installing PTO quick coupler, refer to Deck Installation in Mower Deck Installation on Tractor in the Assembly Instructions.
### LUBRICATION

<table>
<thead>
<tr>
<th>Ident No.</th>
<th>Location</th>
<th>Lubrication Type</th>
<th>No. Places</th>
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<tbody>
<tr>
<td>1</td>
<td>Deck Caster Wheel Fork Pivot</td>
<td>Grease</td>
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<tr>
<td>2</td>
<td>Deck Caster Wheel Bearing</td>
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<td>Tee Gearbox, Deck</td>
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<td>4</td>
<td>Blade Drive Gearbox</td>
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<tr>
<td>5</td>
<td>Universal Joint Shaft Assembly</td>
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<tr>
<td>6</td>
<td>Pivot Assembly, Tilt-Up Deck</td>
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<td>7</td>
<td>Deck Support Arm Socket</td>
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<td>Universal Joint Quick Connect Spline</td>
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<td>21</td>
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<td>Clutch Actuator Push Rod</td>
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<td>Catcher Hinge Point</td>
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<td>Rear Wheel Bearings</td>
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<td>30</td>
<td>Choke Control Cable Ends</td>
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<td>Belt Tightener Pivot, Blower Drive (GHS Model Only)</td>
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<td>36</td>
<td>Throttle Control Pivot</td>
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</tbody>
</table>

* Gearboxes are permanently lubricated and sealed requiring no scheduled lubrication. Oil level should be checked only when an oil leak is noted. Refer to **Mower Deck Gearbox Lubrication** in this section.

** Grease every eight (8) hours.

*** Refer to **Gear Axle Lubrication, Engine Oil, Tractor PTO Gearbox Lubrication**, and **Hydrostatic Transmission Fluid** in this section.

**NOTE:** DGHS42 Tilt-Up Deck is shown for reference. For other Deck Lubrication Points, Refer to Deck and Carrier Frame *Illustrated Parts Manual.*
Chassis and Deck Lubrication Points
CLEANING

Engine Air Cleaner System

There are two main components in the engine air cleaner system: a turbine precleaner and a Donaldson Radialseal™ air cleaner. Each component is checked, cleaned and maintained on a different schedule based on the filtering action required. Each component is serviced as follows:

**Turbine Precleaner**

The turbine precleaner is mounted on a remote air intake tube connected to the Donaldson air cleaner. A spinning fan driven by the intake airflow separates dust from the air, giving the initial stage of air cleaning. Dust particles are exhausted through a single small vent in the side of the housing. Since no dust is trapped, the precleaner operates without cleaning. The only maintenance required is to check the operation of the internal fan every 100 hours. Verify operation:

1. Look into the exhaust vent while shining a light into the intake.
2. Start the engine and watch the fan begin to spin as the throttle is advanced.

If the fan is not spinning, service or replace the precleaner as required.
Donaldson Radialseal™ Air Cleaner

A remote mounted Donaldson Radialseal™ air cleaner provides the air filtering function. The paper filter element slides over an outlet tube inside the air cleaner canister with radial sealing action, reducing the possibility of dust leaks due to improper filter installation. Intake design, internal baffling, and a Vacuator™ valve provide dust separation and automatic precleaning action. Daily or frequent servicing of the air cleaner is not required. Use the air restriction gauge on the air cleaner outlet to indicate when the air filter needs servicing -- a red flag will appear when the filter is overly restricting airflow into the engine.

**IMPORTANT:** Use only Donaldson air filter elements for replacement (Donaldson P822686 or Walker 5090-1). Aftermarket filters may not seal properly or filter efficiently.

Air Cleaner Components
(Shown with Cover Being Removed)

**IMPORTANT:** The Donaldson air cleaner uses a dry paper-type air filter element. NEVER apply oil to the paper element.

Air Restriction Gauge Location

Inspect the paper element after every 100 hours of service and replace the element and safety filter yearly (or when dirty or damaged). More frequent replacement may be required when operating in extremely dusty conditions as indicated by the air restriction gauge. Service the air cleaner as follows:

1. Release the top and bottom cover latches and remove the air cleaner cover. Wash the cover and Vacuator™ valve. Check that these components are in good condition. The Vacuator™ valve is subject to wear and deterioration and should be replaced yearly or when damaged. The lips of the valve should close and fit together; any cracks, deformation, or wear in the valve is cause for replacement.

2. Remove the filter element by pulling it out of the canister. There will be some initial resistance as the filter seal breaks loose and slides off of the outlet tube. Gently move the end of the filter up and down and side to side or twist to loosen the seal. Use gentle action to minimize the amount of dust dislodged as the filter is removed.

3. Replace the filter element.

**NOTE:** Washing the element in water or cleaning solution is not recommended. Do not try to clean the element with compressed air.
4. Use a bright light inside the element to inspect for damage. Check the element very carefully for **pin holes or other damage** that will allow dirt to leak through the paper media. Replace element if necessary.

5. Without removing, visually inspect the condition of the safety filter for damage or holes. The safety filter should only be removed for yearly replacement (or when dirty or damaged).

6. Check the condition and resilience of the radial sealing surface (inside of the open end) of the filter. Replace the filter if any cracks, tears, or other damage to the sealing surface are noted.

7. Use a clean, damp cloth and wipe the interior of the air cleaner canister clean. Use special care to clean **both the inside and outside** surfaces of the outlet tube.

**IMPORTANT:** Any dust left on the inside of the outlet tube will go into the engine and cause wear.

8. Check the outside surface of the outlet tube for smoothness and cleanliness (this is the sealing surface).

9. Insert and seat the safety filter and Radialseal™ element carefully into the canister, applying pressure at the outer rim of the filter; not at the flexible center. Make sure the filter element is completely in place before installing the cover.

**IMPORTANT:** DO NOT use the cover latches to force the filter into the canister -- the cover should fit on with **no extra force**.

**NOTE:** DO NOT use petroleum based lubricants on the sealing surfaces of the filter; use t alcum powder or dry silicone lubricants if required for filter installation.

10. Install the cover with the word “TOP” properly oriented to the top of the canister. Give the cover a slight twist as it reaches the canister to make sure the tab inside the cover goes into a slot, otherwise the cover will not fit properly. Make sure both the top and bottom cover latches are securing the cover in place.

**Proper Orientation of Air Cleaner Cover**

11. Check the air intake hose for cuts, nicks, cracks, etc., and the hose clamps for tightness.

12. Reset the air restriction indicator (press button on the end of indicator).

**Engine Cooling System - MT and MTEFI**

**Air Intake System**

To prevent engine overheating and possible engine damage, clean grass clippings, chaff, and dirt from the rotating engine air intake screen after **every 8 hours of operation**. In certain mowing conditions (dry grass, leaves, tree “cotton”, etc.), it may be necessary to check and clean the screen several times each day to prevent engine overheating.

**CAUTION**

Operating the engine with a blocked air intake screen, dirty or plugged cooling fins, and/or cooling shrouds removed will cause engine damage from overheating.
Cylinder Head Cooling Fins

It is essential for performance and longevity of the air-cooled engine to keep the cylinder head cooling fins clean and free of obstruction. After every 8 hours of operation, check the performance of the cooling system by starting the engine, holding a hand adjacent to the cylinder head, and feeling the cooling airflow. If there is little or no airflow, clean the cooling fins as described below.

Every 100 hours, inspect and clean the cooling fins (more often when operating in extremely dusty, dirty conditions). Remove the two (2) cooling fin access panels in the engine shroud and clean the cooling fins and external surfaces using compressed air. Make sure to reinstall the access panels before operating the engine.

NOTE: If dirt is packed into the cooling fins it may be necessary to remove the engine shroud in order to thoroughly clean the cooling fins.

Engine Cooling System - MTL and MTLEFI

Radiator Screen and Cooling Fins

To prevent the engine from overheating and possible engine damage, clean grass clippings, chaff, and dirt from the fine mesh radiator intake screen daily. In certain mowing conditions (dry grass, leaves, tree “cotton”, etc.), it may be necessary to check and clean the screen several times during use to prevent engine overheating.

1. Remove the screen. To clean the screen, wash with soapy water or blow out with compressed air.

2. Inspect the radiator cooling fins for material lodged in this area which would restrict cooling airflow. Use pressurized air or water to clean. DO NOT use any tool, like a screwdriver or knife, to clean material out of the fins as this may damage the cooling fins. DO NOT use cold water on a hot radiator.

NOTE: Directing pressurized air or water from the fan side of the radiator outward is recommended to dislodge material packed on the outside of the cooling fins. DO NOT use cold water on a hot radiator.

Engine Air Intake Screen and Cooling Fin Access Panels

Kohler Engine Shroud

Engine Cooling Fin Access Panels

Check Airflow with Hand

Cylinder Head

DANGER

Make sure to keep hands clear of exhaust pipe, muffler, and moving parts when checking airflow.

WARNING

Radiator and engine parts can become extremely hot during operation. Wear gloves and avoid touching hot parts while cleaning the radiator screen and cleaning debris away from the engine and cooling system.
Flushing Radiator and Changing Coolant

Change engine coolant every year. Drain the coolant from the engine and radiator:

1. Remove the radiator cap.

2. Open the drain cocks on the engine block and radiator (see the Kohler Owner’s Manual for location of the drain cocks). Also, drain the coolant recovery tank.

3. If there is any indication of deposits or scaling inside the radiator, use a commercial scale remover and flush the cooling system thoroughly before adding fresh coolant.

Use a pre-mixed 50/50 solution of antifreeze (ethylene glycol) and distilled water to refill the cooling system.

IMPORTANT: The solution of antifreeze and water must be thoroughly pre-mixed before putting it in the engine. Adding pure antifreeze into the radiator may cause damage to the engine from overheating.

IMPORTANT: Maintain proper coolant level in the radiator and coolant recovery tank. The coolant level should be maintained between FULL and LOW marks on the coolant recovery tank. Recheck the coolant level after the first time the engine has been operated after filling the coolant system (it would be normal to add a little coolant after initial operation).

Grass Buildup in Mower Housing

1. Raise the deck lock lever handle on each side of the carrier frame and pull out to release carrier frame for tilting action.

2. Using the carrier frame lift handle, raise deck to the TILT-UP position and insert the deck hook into the tilt-up latch on the tractor body.

3. Do not operate the mower with deck in tilt-up position. Do not move the tractor with the deck in the tilt-up position.

4. Lower the deck to the normal operating position and re-engage the deck lock levers.

NOTE: While some degree of material buildup in the mower deck housing can be tolerated, a point is finally reached where cutting quality deteriorates and clogging begins to occur because of too much buildup on the baffling and housing.

DANGER

Before raising or removing the mower deck for cleaning, stop the engine, remove the ignition key, and disconnect the spark plug wires.

CAUTION

Do not operate machine with deck tilt-up pivot joint unlocked.
GHS Blower

Normally, the GHS blower operates with no maintenance or cleaning. However, when mowing **grass that is dirty and damp** (especially springtime mowing), a deposit of dirt may accumulate inside the blower housing, causing wear and binding of the blower wheel. When operating in these conditions, **inspect the blower frequently for dirt buildup.**

**NOTE:** A visual clue of binding of the blower wheel is the blower **blade tips are polished** from rubbing on dirt.

When a dirt deposit is found, use a high pressure washer or water spray to clean the inside of the housing as follows:

<table>
<thead>
<tr>
<th><strong>DANGER</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Before attempting to wash the blower, stop the engine, remove the ignition key, and disconnect the spark plug wires. Wear goggles or face shield.</strong></td>
</tr>
</tbody>
</table>

1. Remove the GHS blower drive belt tension by depressing the idler pulley on the tightener arm. Roll the belt off the blower pulley. The belt should be clear of the blower pulley, allowing **free movement** of the blower wheel.

**IMPORTANT:** With the belt removed, the blower wheel **must spin freely.** Any binding or dragging of the wheel is an indication of dirt buildup. This **buildup must be cleaned** to avoid abrasive wear of the blower blades, excessive power loss and eventual loss of blower performance (clogging).

2. Use a pressure washer or water spray, and direct the spray inside the blower housing against the blower blades. Water pressure will cause the blower wheel to begin to spin and the combination of spinning action and water will effectively wash the inside of the housing. Spray may be directed against the blower blades vertically and horizontally to cause rotation in both directions for thorough washing action. **Wash blower until the blower wheel spins freely** in both directions.

3. Reinstall the GHS blower drive belt by reversing the removal procedure.

---

**GHS Exhaust Screen**

Refer to **Cleaning the GHS Exhaust Screen** in Operating Instructions.

**Hydrostatic Transmission Cooling Fins**

Keeping the cooling fins on the hydrostatic transmissions clean and free of obstruction is **essential to avoid overheating** the transmission fluid and shortening transmission life. The cooling fins should be checked **every 100 hours**; and cleaned if necessary.

To clean the fins, use compressed air and/or a pressure washer. The cooling fins extend all the way around the housing -- the fins underneath need to be clean as well as the more visible fins above. Also, pay close attention to the area under the drive pulley.

**IMPORTANT:** In case an oil leak develops on the input shaft, the cooling fan blowing dusty air and oil on the transmission will **quickly** pack the cooling fins with **oily dirt.** If this condition occurs, replace the seal immediately to avoid overheating and damaging the transmission. The input shaft assembly and seal are easily replaced without removing the transmission from the machine.
An additional procedure in maintaining transmission cooling is to inspect the cooling fans. Replace the fan(s) if blades are missing or damaged.

Hydrostatic Transmission Cooling Fins

CHECKING/SERVICING

DANGER

To prevent accidental starting of the engine when servicing or adjusting the machine, remove the key from the ignition switch and disconnect the spark plug wires.

Engine Cooling System - MTL and MTLEFI

Coolant Level

WARNING

NEVER remove the radiator pressure cap when the engine is hot — hot water could spray and cause a burn if the cap is taken off too soon.

Model MTL Overflow Tank

Check the coolant level in the coolant recovery tank and maintain the coolant level between the FULL and LOW marks on the recovery tank. When the engine is cold, the coolant level should be at or slightly above the LOW mark on the recovery tank.

If the coolant level is low, remove the radiator cap and fill to the overflow port level and then fill the recovery tank above the LOW mark. Use a pre-mixed 50/50 solution of antifreeze (ethylene glycol) and distilled water to fill the cooling system.

IMPORTANT: The coolant solution of antifreeze and distilled water must be thoroughly pre-mixed before putting it in the engine (adding pure antifreeze into the radiator may cause damage to the engine by causing overheating).

Security of Air Filtration Components

NOTE: The following inspection is only an external inspection and should be done without “disturbing” the filtration components.

On a daily basis, visually inspect the external condition of the complete air cleaner system. The following items should be inspected:

1. Check the Donaldson Radialseal™ air cleaner canister for damage. Make sure the cover is in place and the cover latches are secure - do not run the engine without the air cleaner cover in place and secure.

2. Inspect both air intake hoses for cracks, nicks, cuts, etc., and check the hose clamps for tightness.

3. Check to make sure the air flow indicator is in place and tight.
Battery

NOTE: For initial battery service during setup, refer to Battery Service in Assembly Instructions.

IMPORTANT: Make sure battery is securely mounted in the frame. A loose battery may cause damage to the case resulting in acid leakage and severe damage to the machine. A hazard may be created by damage to critical working parts and safety systems.

Electrolyte Level

The battery electrolyte level should be checked after every 25 hours of operation. To check electrolyte level:

1. Remove battery cell filler caps.
2. Check the electrolyte level. If the level is below the bottom of the vent well, fill with drinking water to the bottom of the vent wells [1/4 to 1/2 in. (6 to 13 mm) above the plates].
3. Replace filler caps.

IMPORTANT: DO NOT overfill the battery. Electrolyte will overflow through the vented caps onto parts of the machine and WILL result in severe corrosion.

Cleaning the Terminals

If battery terminals are corroded, remove battery from the mower. Using a wire brush, remove corrosion with a solution of one part baking soda and four parts water. Rinse with clean water. Coat the terminals with petroleum jelly or terminal protector spray to retard further corrosion.

Charging the Battery

Check the battery charge by measuring the specific gravity of electrolyte; if specific gravity is less than 1.225, the battery will need to be charged as follows:

IMPORTANT: On MTEFI and MTLEFI models, always disconnect the negative (-) battery terminal before charging. Failure to do so can result in damage to the ECU.

1. Charge the battery at 15 amps for 10 minutes. DO NOT exceed 20 amps maximum recommended charging rate. Charge until specific gravity is at least 1.250. Total charging time should not exceed one (1) hour.
2. After charging the battery, use distilled water to adjust the electrolyte level to the bottom of the vent wells [1/4 to 1/2 in. (6 to 13 mm) above the plates].

Important Battery Service, Installation, and Changing Tips for MTEFI/MTLEFI:

- Do not allow the battery cables to touch opposing terminals. When connecting battery cables attach the positive (+) cable to positive (+) battery terminal first, followed by negative (-) cable to negative (-) battery terminal.
- Never start the engine when the cables are loose or poorly connected to the battery terminals.
- Never disconnect battery while engine is running.
- Never use a quick battery charger to start the engine.
- Never "jump start" the engine using another source. Electricity fluctuations can damage the ECU (Electronic Control Unit).
- Always disconnect negative (-) battery cable lead before charging battery, and also unplug harness from ECU before performing any welding on equipment.

Batteries Produce Explosive Gases

- Charge the battery in a well-ventilated area, so that gases produced while charging can dissipate.
- Keep sparks, flames, and smoking materials away from the battery at all times.
- Make sure the battery cap vents are open (check manifold vent on each cap).
- Make sure the battery charger is unplugged before connecting or disconnecting cables to the battery.

CAUTION

Important Battery Service, Installation, and Changing Tips for MTEFI/MTLEFI:

- Do not allow the battery cables to touch opposing terminals. When connecting battery cables attach the positive (+) cable to positive (+) battery terminal first, followed by negative (-) cable to negative (-) battery terminal.
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DANGER

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- Make sure the battery cap vents are open (check manifold vent on each cap).
- Make sure the battery charger is unplugged before connecting or disconnecting cables to the battery.
**Tire Pressure**

Inflate tires to pressures shown below:

- Deck Caster Wheel = 20 PSI (137 kPa)
- Drive = 15 PSI (103 kPa)
- Rear = 20 PSI (137 kPa)

**Wheel Bolt Torque**

Every 100 hours check the eight (8) lug bolts that mount the drive tires. They should be torqued to 75 to 85 ft-lbs (101.7 to 115.2 N·m).

**Sharpen Mower Blades**

Check mower blade(s) for **straightness, sharpness, condition of the cutting edge**, and balance **every 10 hours** of operation (or more often when mowing abrasive type grass or operating on sandy soils). **Replace blades if worn, bent, cracked, or otherwise damaged** (refer to REPLACING/REPAIRING the Mower Blades in this section). Use the following procedure to check and sharpen blades:

1. Stop the engine, remove ignition key, and disconnect the spark plug wires **before** raising the mower deck to service blades.

2. Raise the deck and secure it in the TILT-UP position. Refer to CLEANING the Grass Buildup in Mower Housing in this section for deck raising instructions.

3. Check the blades for **straightness** by marking the blade tip position inside the deck housing, and then rotating the opposite end of the blade to the same position and comparing. If the difference in blade tip track is **more than 1/8 in.** (3 mm), the blade is bent and **should be replaced**.

**WARNING**

**DO NOT** try to straighten a blade that is bent. **NEVER** weld a broken or cracked blade. **ALWAYS** replace with a new blade to assure safety.

4. If the blade cutting edge is **dull or nicked**, it should be sharpened. Remove blades for sharpening by grasping the end of the blade using a rag or a thick, padded glove, while loosening and removing the nut, lock washer, and flat washer that mounts the blade.

5. Grind cutting edge at the same bevel as the original. Sharpen only the top of the cutting edge to maintain sharpness.

**NOTE:** Blades can be sharpened with an electric blade sharpener, conventional electric grinder, or a hand file.

**CAUTION**

**ALWAYS** wear eye protection and gloves when sharpening a blade.

**NEVER** operate cutter blades with the deck in the raised position.

**NOTE:** PTO shaft must be **disconnected** before checking blades for straightness.

Mower Blade Profile for Sharpening

- **Sharpen at Original 30° Angle**
- **Intersection Wear Area**
- **Wing Tip**
- **Do Not Grind or Sharpen on Underside**
6. Check blade balance by positioning the blade **horizontally** on a blade balancer or use a nail or shaft through the center hole. If either end of the blade rotates downward, grind (remove) metal on that end until the blade will balance. The blade is properly balanced when neither end drops. Balance of a blade is generally maintained by removing an equal amount of material from each end of the blade when sharpening.

![Blade Balancer](image)

### Mower Deck Gearbox Oil Seals

The mower deck gearbox seals should be inspected **every 25 hours** for evidence of oil leaking; particularly the lower oil seal on the blade drive gearbox. This seal is protected by the trash guard on the blade hub and seal protector plate on the housing, but is still vulnerable to seal damage due to operating in an adverse environment. The mower blade must be removed for inspection of the seal, so it is recommended to **inspect the gearbox seals when blades are removed for sharpening**. If an oil leak is noted, the seal should be replaced and the gearbox assembly relubricated. Refer to **LUBRICATION** for Mower Deck Gearbox Lubrication in this section.

### Spark Plugs

**Every 200 hours** of operation, remove the spark plugs, inspect, clean, and reset the gap (or replace with **new plugs**). Before removing the spark plugs, clean the area around the base of the plugs to keep dirt and debris out of the engine. Clean spark plugs with a wire brush. DO NOT use an abrasive grit type cleaner. If the electrodes are burned short or pitted, replace plugs with Champion® type RC12YC [MT & MTEFI (or equivalent)] or RC14YC [MTL & MTLEFI (or equivalent)]. Check spark plug gap with a wire-type feeler gauge and set the gap at 0.030 in. (0.76 mm). Reinstall and tighten to between 18 and 22 ft-lb (24.4 to 29.8 N·m).

### Ignition Wires

Good preventive maintenance calls for complete replacement of spark plug wires **every two (2) years**.

### Fuel Lines and Clamps

**NOTE:** The MTEFI system is pressurized and should be serviced by a Walker dealer or Authorized Kohler engine service outlet.

**Every year**, inspect the fuel supply line from the tank to engine for deterioration or damage. Also, inspect the fuel line **clamps for tightness**. Good preventive maintenance calls for complete replacement of fuel lines and clamps **every two (2) years**.

**Drive Belts**

Raise the body and inspect the condition of the four (4) belts (3 belts on SD models) **every 25 hours** of operation - engine PTO drive, jackshaft drive, hydrostatic ground drive, and GHS blower drive. If the belts show signs of cracking or deteriorating, the belts should be replaced. Refer to **REPLACING/REPAIRING the Drive Belts** in this section.
Radiator Hoses and Clamps - MTL and MTLEFI

Inspect the radiator hoses every 200 hours for deterioration or damage. Also check the tightness of the hose clamps. Good preventive maintenance calls for complete replacement of the radiator hoses and clamps every two (2) years.

Blade Brake Action

**WARNING**

It is important to check and maintain blade brake action for safe operation of the machine.

Check the function of the cutter blade brake (and blower brake on GHS models) by engaging the blade clutch (PTO), operating the engine at full throttle, then disengaging the clutch and measuring how quickly the blades stop. Watch the rotation of the blade drive shaft and blower pulley as a visual indication that movement has stopped. If the brake is working properly, all rotation will stop five (5) seconds after disengagement of the clutch. If the brake system malfunctions - blades do not stop in five (5) seconds - adjust or repair the brake before operating the mower. Contact your Walker dealer for service or refer to the Walker Service Manual.

PTO U-Joints

The PTO U-joints should be inspected yearly for looseness and wear. If either is noticed, the respective shaft or tube should be replaced. A worn U-joint can cause vibration and extensive damage to the PTO and deck gearboxes.

Safety Switch System

**WARNING**

It is important to check and maintain the safety switch system for safe operation of the machine.

There are three (3) safety interlock switches on the tractor; Seat Switch, FSC Neutral - Park Switch, and PTO Switch.

NOTE: There is a 1 to 1-1/2 second time delay function on the seat switch to avoid engine power interruption when driving over bumps.

If any of the following conditions occur during starting or operating, a safety interlock switch may be malfunctioning. Contact your Walker dealer for troubleshooting and/or replacement.

- With an operator in the seat, the engine starts with the Forward Speed Control (FSC) and/or the PTO engaged.
- With an operator in the seat, the engine starts but dies soon after the Forward Speed Control (FSC) or PTO is engaged.
- Without an operator on the seat, the engine starts and continues to run with the Forward Speed Control (FSC) and/or PTO engaged.
- With an operator in the seat, the Forward Speed Control (FSC) and PTO disengaged and panel horn works, but the starter is not engaging.

Forward Speed Control Friction Lock

The FSC friction lock is designed to hold the selected forward travel speed when the steering levers are moved and yet the friction is not too heavy to make moving the FSC control difficult (too much friction). The procedure for checking the FSC friction lock is as follows:

1. Place the FSC in the full FORWARD position and pull both steering levers back; the FSC lever should not move. If the FSC lever moves back when the steering levers are pulled back, the friction needs to be increased.

2. With the steering levers held back, move the FSC lever back from the FORWARD position. With a proper amount of friction adjusted, the FSC lever should move back with a slight amount of resistance (friction). If the FSC lever movement is “stiff”, the friction needs to be decreased.

If the FSC friction lock needs to be adjusted, contact your Walker dealer or refer to the Walker Service Manual.
IMPORTANT: ALWAYS use genuine factory replacement parts. Substitute parts CAN result in product malfunction and possible injury to the operator and/or others.

**DANGER**

To prevent accidental starting of the engine when replacing parts or repairing the machine, remove the key from the ignition switch and disconnect the spark plug wires.

Drive Belts

There are **four (4) individual belts** on GHS models or **three (3) belts** on SD models:

- Jackshaft Drive Belt
- Engine PTO Drive Belt (3 Groove Power Band)
- GHS Blower Drive Belt (GHS Model Only)
- Hydrostatic Ground Drive Belt

The belts may be removed and replaced using the procedures described on the following pages.
**Engine PTO Drive Belt (3 Groove Power Band)**

1. To remove the engine PTO drive belt:
   a. Remove the jackshaft drive belt from its idler pulley (by pushing down on idler pulley) and let the belt drop down out of the way.

   **NOTE:** Step (a) is not essential to removing the PTO belt, but it makes more room to work with the PTO belt.

   b. Push the clutch idler pulley down (until the PTO belt tightener stop block contacts the frame) and then shift the belt off the idler pulley (to the inside).

2. Install the PTO drive belt by reversing the removal procedure.

   **IMPORTANT:** Make sure the belt is installed **inside** the four (4) belt guide pins.

   Check and make the following adjustments:
   a. Clutch engagement for proper belt tension.
   b. Clutch disengagement and brake action.
**Jackshaft Drive Belt**

1. To remove the jackshaft drive belt:
   a. Remove the engine PTO drive belt, as described in previous section.
   b. Relax the belt by depressing the spring-loaded idler arm.
   c. Roll the belt off the jackshaft pulley and remove.

2. Reverse the removal procedure to replace the jackshaft drive belt.

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**Jackshaft Drive Belt (Engaged)**

**Jackshaft Drive Belt (Disengaged)**
**GHS Blower Drive Belt**

1. Remove the GHS blower drive belt tension by depressing the idler pulley on the tightener arm. Roll the belt off the blower pulley and remove.

2. Reverse the procedure to install the GHS blower drive belt.

---

**GHS Blower Drive Belt Assembly (Disengaged)**

**GHS Blower Drive Belt Assembly (Engaged)**
**Hydrostatic Ground Drive Belt**

1. To remove the hydrostatic ground drive belt:
   a. Raise the spring-loaded belt tightener arm and idler pulley to relax belt.
   b. Slide belt off pulleys, then release the idler.

2. Reverse the procedure to install the hydrostatic ground drive belt.
Maintenance Instructions

Fuel Filter - Model MT and MTL

Models MT and MTL are each equipped with an in-line fuel filter. Visually inspect the filter periodically, and replace the filter yearly.

Fuel Filter Location

IMPORTANT: Replace the fuel filter only in a clean area where the fuel line and connections will not be contaminated by any dust and dirt.

DANGER

Gasoline is extremely flammable and can be highly explosive. To minimize danger:

- Use only an approved fuel container for gasoline.
- DO NOT allow open flames or sparks near the machine while performing maintenance or refueling; DO NOT smoke while working with fuel.
- Wipe up spilled gasoline immediately and completely.

1. Expand and slide clamps on either side of the filter away from filter and pull fuel lines off filter.

2. Replace filter.

Fuel Filter - MTEFI and MTLEFI

WARNING

The MTEFI fuel system operates under high pressure. This system should be serviced by a Walker dealer or authorized Kohler service dealer.

Model MTEFI is equipped with a high-volume, high-pressure, 10-15 micron, in-line fuel filter. Replacement of this filter is recommended every 1500 hours of operation or more frequently under extremely dusty or dirty conditions. Because the MTEFI has a pressurized fuel system, fuel filter replacement should be done by a Walker dealer or authorized Kohler service dealer.
**Blade Overload Shear Bolts**

**NOTE:** Shear bolts are not used on the DSD52 or DSD62 mower deck.

The cutting blade is keyed to the blade hub by **two (2) shear bolts** (10-24 x 5/8 in. stainless steel machine screws). These bolts are designed to shear and protect the blade drive gearbox from damage if the blade encounters a shock load.

If these bolts shear, remove the blade and install new bolts. Refer to **CHECKING/SERVICING** in this section for **Sharpen Mower Blades** which describes the blade removal and installation procedure.

After reinstalling the blade, check blade timing by moving blades through **one (1) complete revolution**. Make sure blade tips pass clear of each other. If timing is incorrect, contact your Walker dealer.

**PTO Shear Pin**

The PTO drive shaft connection to the deck gearbox has a shear pin to provide shock load protection to the mower deck drive. This system provides **primary shock protection** in case of blade impact and will normally shear before the individual shear bolts on the blade hub.

When the PTO pin has sheared, use the following procedure to replace it:

1. Loosen the two bolts securing the PTO shaft guard on the deck; lift the guard off. (Holes in guard are slotted for easy removal.)

2. Rotate U-joint on shaft to align the shear pin hole with the hole (and shear pin fragment) in the shaft. Use a punch to drive the remaining portion of the old shear pin out.

3. Install new shear pin and secure with cotter pin.

4. Reinstall the PTO shaft guard.

**NOTE:** Use Walker P/N 8067-10 for heavy duty gearboxes.

Before operating the deck, inspect the blade overload shear bolts and also check blade timing (on gear driven decks) by moving blades through **one (1) complete revolution**. Make sure blade tips pass clear of each other. If timing is incorrect, contact your Walker dealer.
**Mower Blades**

Mower blades are removed and remounted as described in **Sharpen Mower Blades** instructions. During the course of sharpening and inspecting mower blades, if there are any of the following conditions of wear or damage, blades should be replaced for reasons of safety and performance of the machine:

- An excessive amount of the flat section of the blade has been ground away (removed) when the blade is sharpened. Replace the blade when less than a 3/4 in. (19 mm) flat section remains at the blade tip.
- Examine ends of the blade carefully, especially the intersection where the flat section of the blade turns up to form the “wing tip” (refer to **Mower Blade Profile for Sharpening** illustration in **Sharpen Mower Blades** instructions). Since sand and abrasive material can wear metal away in this area, the blade should be replaced when metal thickness has worn to 1/16 in. (1.6 mm) or less.
- Check the blades for straightness by marking blade tip position inside the deck housing and then rotating the opposite end of the blade to the same position and comparing. If the difference in blade tip track is more than 1/8 in. (3 mm), the blade is bent and should be replaced.
- Inspect the blade surface, especially in formed areas, for cracks. Replace the blade if any cracks are found.

<table>
<thead>
<tr>
<th>Warning</th>
</tr>
</thead>
<tbody>
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</tbody>
</table>

Reinstall the blades following procedure in **CHECKING/SERVICING** for **Sharpen Mower Blades** instructions. If blades are replaced, always use Walker original equipment blades to ensure safety and optimum performance. The quality and performance of replacement blades offered by other manufacturers cannot be guaranteed, they could be dangerous.

<table>
<thead>
<tr>
<th>Caution</th>
</tr>
</thead>
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<td><strong>CAUTION</strong></td>
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<tr>
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</table>

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**DANGER**

When blades are operated over sandy soil, and if blades are allowed to wear, a “slot” may be worn into the wing tip of blade. Eventually a piece of the blade may break off creating a serious potential for injury or damage.
ADJUSTMENTS

Steering Levers

An adjustment range of approximately 3 in. (76 mm) is available on the steering levers - the levers can be adjusted forward or aft depending on the arm length of the operator. The levers can be adjusted by loosening the locknut at the pivot point and the locknut holding the lever in position in the adjustment slide. Adjust levers into most comfortable position and tighten both locknuts.

Tilt-Up Deck Adjustable Stop

When the carrier frame hinge joint is properly adjusted, the deck lock levers should move in and out of the engaged and disengaged positions freely. Adjustments are made by loosening the jam nut and tightening or loosening the set screws on the Deck Mount Pivot Brackets. Retighten the jam nut when the adjustment is complete.

Steering Lever Adjustment
GHS Signal Horn Adjustment
(When Horn Sounds at Wrong Time)

The vertical position of the Grass-Pak® switch is critical to make sure the catcher box does not overfill causing the delivery chute to clog. The vertical position can be adjusted by bending the mounting bracket for the Grass-Pak® switch.

1. Position the discharge chute so that it is pointing straight back.
   a. Turn the ignition switch **ON** and move the blade clutch to the **ENGAGED** position (engine not running).
   b. Open the catcher back door and monitor the spout position (as it oscillates) and move the blade clutch to the **DISENGAGED** position and turn the ignition switch to the **OFF** position.

2. Measure from the exhaust screen (top of catcher) to the top of the Grass-Pak® switch actuator vane, refer to Adjusting the Grass-Pak® Switch illustration. The proper measurement should be between 4 and 4-1/2 inches (10.16 and 11.43 cm).

   ![Adjusting the Grass-Pak® Switch (Side View of Catcher Box)](image)

   - **Exhaust Screen**
   - **4 to 4-1/2 in. (10.16 to 11.43 cm)**
   - **Bend Point**

3. If adjustment is required, hold the Grass-Pak® switch mount bracket firmly, grasp the switch and bracket and bend it down. Adjustments should be done in very small increments checking the measurement each time until the recommended measurement is achieved. This measurement is applicable to all catcher box sizes.

   **WARNING**
   
   **DO NOT** test the Grass-Pak® switch with the engine running. Projectiles **CAN** be thrown out of the grass delivery spout and **CAN** cause serious injury to bystanders or property damage.

   **NOTE:** It will not be possible to adjust the switch to give a signal at the precise instant the catcher is full for a wide variety of mowing conditions. For example, wet heavy grass will fill the catcher differently than dry fluffy grass, causing the signal to come on a little sooner or later than usual. Primarily, the switch should be adjusted to give the “full” signal with a little advance warning before overfilling and clogging of the grass delivery chute begins (regardless of mowing conditions).
LIMITED WARRANTY
FOR
WALKER
COMMERCIAL RIDER MOWER

1. WHAT THIS WARRANTY COVERS, AND FOR HOW LONG:

Walker Manufacturing company will, at its option, repair or replace, without charge, any part covered by this warranty which is found to be defective in material and/or workmanship within one (1) year* after date of sale to the original retail purchaser unless the product is used for rental purposes, in which case this warranty is limited to ninety (90) days. At Walker's request, customer will make the defective part available for inspection by Walker and/or return the defective part to Walker, transportation charges prepaid. All parts and components of the Walker Mower are covered by this warranty except the following components which are warranted separately by their respective manufacturers:

- Kohler Engine
- Kubota Engine
- Kawasaki Engine
- Eaton Hydraulic Transmission
- Peerless Gearboxes
- Battery
- Tires

The available warranties covering these items are furnished with each mower. Walker does not assume any warranty obligation, liability or modification for these items, which are covered exclusively by the stated warranty of the respective manufacturers noted above.

* An extended three (3) year warranty is offered on the Walker P/N 6200-9 Gear Axle Assembly.

2. WHAT THIS WARRANTY DOES NOT COVER:

A. This warranty does not cover defects caused by depreciation or damage caused by normal wear, accidents, improper maintenance, improper use or abuse of the product, alterations, or failure to follow the instructions contained in the Owner's Manual for operation and maintenance.

B. The customer shall pay any charges for making service calls and/or for transporting the mower to and from the place where the inspection and/or warranty work is performed.

3. HOW TO OBTAIN SERVICE UNDER THIS WARRANTY:

Warranty service can be arranged by contacting the dealer where you purchased the mower or by contacting Walker Manufacturing Company, 5925 East Harmony Road, Ft. Collins, CO 80528. Proof of the date of purchase may be required to verify warranty coverage.

4. WARRANTY LIMITATION:

A. THERE IS NO OTHER EXPRESS WARRANTY. ANY WARRANTY THAT MAY BE IMPLIED FROM THIS PURCHASE INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IS HEREBY LIMITED TO THE DURATION OF THIS WARRANTY AND TO THE EXTENT PERMITTED BY LAW ANY AND ALL IMPLIED WARRANTIES ARE EXCLUDED. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

B. WALKER WILL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES AND/OR EXPENSES IN CONNECTION WITH THE PURCHASE OR USE OF THE MOWER. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation(s) or exclusion(s) may not apply to you.

C. Only the warranty expressed in this limited warranty shall apply and no dealer, distributor, or individual is authorized to amend, modify, or extend this warranty in any way. Accordingly, additional statements such as dealer advertising or presentations, whether oral or written, do not constitute warranties by Walker, and should not be relied upon.

D. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.
### Sound - Model MT

**Sound Test**

Sound test conducted was in accordance with Council Directive 2000/14/EEC and was performed on 28 February 06 under the conditions listed:

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<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
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<tr>
<td>General Condition</td>
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<tr>
<td>Temperature</td>
<td>18°C (65°F)</td>
</tr>
<tr>
<td>Wind Speed</td>
<td>&lt; 2 m/s</td>
</tr>
<tr>
<td>Humidity</td>
<td>20%</td>
</tr>
<tr>
<td>Barometric Pressure</td>
<td>83.8 kPa</td>
</tr>
</tbody>
</table>

### Vibration - Model MT

**Vibration Level**

Vibration levels at the operators handles were measured in the vertical, lateral, and longitudinal directions using calibrated vibration test equipment.

- **0.8g**

### Sound - Model MTL

**Sound Test**

Sound test conducted was in accordance with 79/113/EEC and was performed on 26 June 02 under the conditions listed:

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<thead>
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<th>Parameter</th>
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<tbody>
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<tr>
<td>Temperature</td>
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<tr>
<td>Wind Speed</td>
<td>&lt; 5 mph (&lt; 8 kmh)</td>
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<tr>
<td>Humidity</td>
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<tr>
<td>Barometric Pressure</td>
<td>24.9&quot;HG (759 mmHg)</td>
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</tbody>
</table>

### Vibration - Model MTL

**Vibration Level**

Vibration levels at the operators handles were measured in the vertical, lateral, and longitudinal directions using calibrated vibration test equipment.

- **0.8g**

### Sound - Model MTEFI

**Sound Test**

Sound test conducted was in accordance with Council Directive 2000/14/EEC and was performed on 28 February 06 under the conditions listed:

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### Vibration - Model MTEFI

**Vibration Level**

Vibration levels at the operators handles were measured in the vertical, lateral, and longitudinal directions using calibrated vibration test equipment.

- **0.8g**

### Sound - Model MTLEFI

**Sound Test**

Sound test conducted was in accordance with Council Directive 2000/14/EEC and was performed on 28 February 06 under the conditions listed:

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### Vibration - Model MTLEFI

**Vibration Level**

Vibration levels at the operators handles were measured in the vertical, lateral, and longitudinal directions using calibrated vibration test equipment.

- **0.4g**